SERVICE MANUAL

R-325/R-325RDS AUDIO/VIDEO PRO-LOGIC RECEIVER



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SAFETY PRECAUTIONS

WARNING

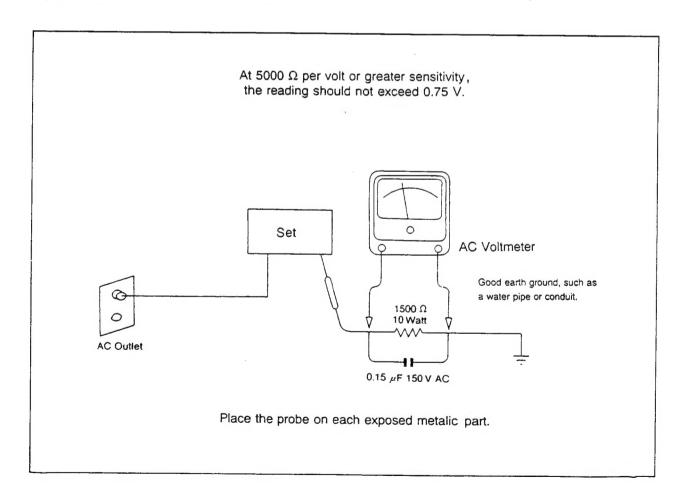
Before servicing this unit, familiarize yourself with the following precautions:

1 Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltge, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by ! in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the

exposed metal parts of the cabinet, such as terminals, screw heads, and metal overlays. to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet (120 V AC version only). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000 Ω per volt or greater. Then connect a 1500 \Omega 10 watt resistor, paralleled by a 0.15 µF 150 V AC capacitor, between a known good earth ground (such as a water pipe, or conduit) and the exposed metalic is parts, one at a time. Measure the AC voltage across the combination of a 1500 Ω resistor and a 0.15 μF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metalic part. Voltage measured must not exceed 0.75V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SPECIFICATIONS

FRONT AMP SECTION

Measuring methods are based on IHF and IEC standard 268-3.

Measurements conditions, unless otherwise noted:

- * Output resistive load: 8 ohms/Both channel driven.
- * Tone (Bass, Treble), Balance: Center Position, Other SWs: OFF.
- * Nominal input level: 5 mV for MM, 0.5 mV for MC, 500 mV for general purpose inputs.
- * Power figures should be kept minimum 10 min. between 15 and 35 °C.
- * Terminator: 100 ohms for MC, 1 kohms for MM and general purpose inputs.

* Filter: IHF-A filter

* R/O: Rated Output

* [Filter: IHF-A filter * R/O: Rated Output									
NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL			
1	Input Sensitivity	AUX	1 kHz	-	mV	±30	170			
İ		MM	1 kHz	-	mV	± 0.5	2.5			
2	Channel Balance	AUX	1 kHz	O to -40 dB	dB	±3	±2			
			1 kHz	-VO to -40 dB	dB	±6	±4			
3	Residual Noise	AUX	1 kHz	VOL. min.	mV.	1	0.8			
4	Total Harmonic Distortion	AUX	20 Hz	60 W/1 W	%	0.2	0.09			
			1 kHz	60 W/1 W	%	0.2	0.09			
			20 kHz	60 W/1 W	%	0.2	0.09			
5	Continuous Average Power	AUX	20 Hz	8 ohms	W	55	60			
	at 0.2% THD		1 kHz	8 ohms	W	55	60			
	· ·		20 kHz	8 ohms	W	55	60			
6	Inter Modulation Distortion	AUX	60 Hz=4	R/O	%	0.2	0.09			
	SMPTE		7 kHz=1	1 W	%	0.2	0.09			
7	Signal to Noise Ratio	AUX	1 kHz	R/O	dB	90	93			
		MM	1 kHz	R/O	dB	70	74			
8	Channel Separation	AUX	100 Hz	R/O -3 dB	dB	50	55			
	input shorted.		1 kHz	R/O -3 dB	dB	50	55			
			10 kHz	R/O -3 dB	dB	45	50			
9	Function Crosstalk	CD→AUX	1/10 kHz	R/O -3 dB	dB	70/65	75/70			
10	Frequency Response	AUX	-	1 W	Hz~kHz	20/50	10/70			
11	Tone Control, ±10 dB	AUX	100 Hz	1 W	dB	±10±2	±10±1			
		4	10 kHz	1 W	dB	±10±2	±10±1			
12	Phono Equalization	PHONO	100 Hz	TAPE OUT	dΒ	RIAA±2	RIAA±1			
			10 kHz	TAPE OUT	dB	RIAA±2	RIAA±1			
13	Input Overload at 0.5% THD	MM	1 kHz	TAPE OUT	mV	140	145			

REAR AMP SECTION

Measurements conditions: Input level 350 mV, Delay time 20 mS, Rear level max., Master volume adj, Only Rear Channel drive.

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Power Output at 0.7% THD	AUX	1 kHz	8 ohms	W	50	70
2	Total Harmonic Distortion	AUX	1 kHz	1 W	%	1.0	0.7
	Signal to Noise Ratio (IHF-A Filter) DOLBY	AUX	-	1W	dB	65	70
	THEATER	AUX	-	1W	dB	65	70
	HALL	AUX	-	1W	dB	65	70
	SIMULATED	AUX	-	1W	dB	60	65
	Frequency Response at ±3 dB (ONLY DOLBY)	AUX	1 kHz	1 W	Hz∼kHz	100~6	80~7

☞ CENTER AMP SECTION

Measurements conditions: Input level 350 mV, WIDE mode, Center level max., Master volume adj, Only Rear Channel drive.

N	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Power Output at 0.3% THD	AUX	1 kHz	8 ohms	W	50	70
2	Total Harmonic Distortion	AUX	1 kHz	1 W	%	0.3	0.09
3	Signal to Noise Ratio, IHF-A	AUX	-	1W	dB	70	78
4							
	DOLBY MODE NORMAL	AUX	-	1 W	Hz~kHz	140~50	120~60
	WIDE	AUX	-	1 W	Hz~kHz	50~50	20~60

☞ VIDEO SECTION

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Output Level at 75 ohms	VCR1 (1Vp-p)	1 MHz	-	Vp-p	1±0.5	1
2	Frequency Response	VCR1 (1Vp-p)	1 MHz	-	Hz~MHz	DC~6	DC~6.3
3	Signal to Noise Ratio	VCR1 (1Vp-p)	1 MHz	-	dB	45	50
4	Crosstalk	VCR1 (1Vp-p)	1 MHz	•	dB	45	50

AM SECTION

Measuring methods in conformity with IEC standard 315.

Measurements conditions;

- * Radio frequency: 1000/999 kHz, Audio frequency: 400 Hz
- $_{\star}$ Reference level: 5 mV/m, 10 mV/m on 50 ohms, Modulation: 30%
- * Test point: TP1=600 kHz, TP2=1000 kHz, TP3=1400 kHz (USA/Canada Version)
- * Test point: TP1=594 kHz, TP2=999 kHz, TP3=1404 kHz (Korea/Europe Version)

NO	DESCRIPTION		VERSION	UNIT	LIMIT	NOMINAL
1	Tuning Cover Range	LOW~HIGH	USA/Canada	kHz		1710
			Europe/Korea	kHz	522~	1611
	Step	AUTO/Man.	USA/Canada	kHz	10/	10
			Europe/Korea	kHz	9/	
2	Usable Sensitivity	TP1		uV/m	≤800	≤500
	S/N=20 dB	TP2		uV/m	≤800	≤500
		TP3		uV/m	≤800	≤500
3	Signal to Noise Ratio			dB	≥40	≥45
4	Total Harmonic Distortion			%	≤1.5	≤1
5	Over Load Distortion at 5	mV input, 80% MOD.		%	≤10	≤5
6	Frequency Response at -6	3 dB		Hz	100~2k	80~2.3k
7	Selectivity	10 kHz/9 kHz		dB	≥20	≥25
8	AGC Figure of Merit	100 mV at -10 dB		dB	≥50	≥55
9	Whistle Modulation at 1 m	V/m 2l _F		%	≤15	≤10
10	Image Rejection	TP3		dB	≥30	≥35
12	Auto Stop Level			uV/m	800±6dB	800±5dB
13	Output Level			mV	160±50	160±30

FM SECTION

Measuring methods in conformity with IEC standard 315.

Measurements conditions FM;

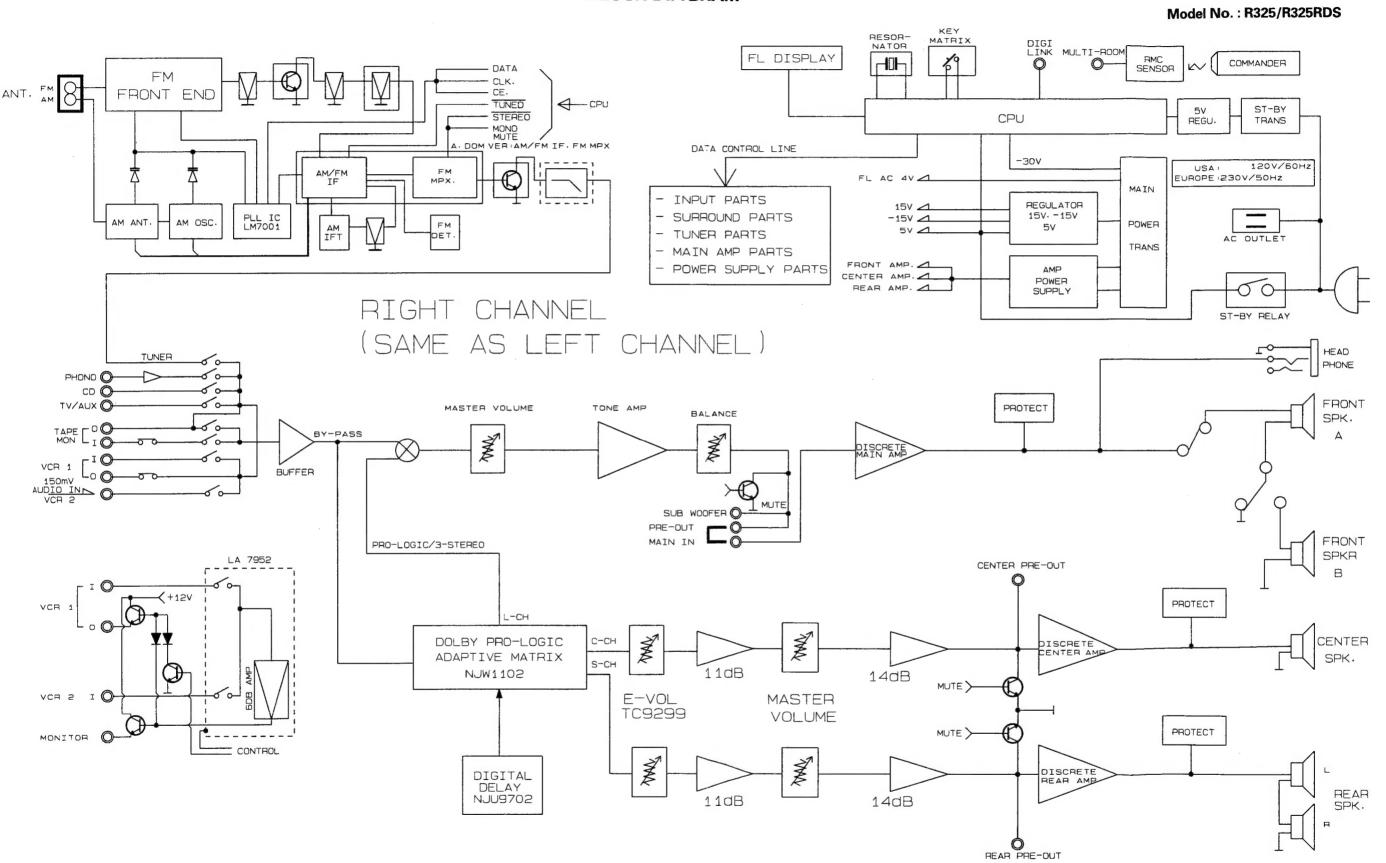
- * Radio frequency: 98.1 MHz, Audio frequency: 1 kHz
- * Reference level: 1 mV on 75 ohms
- * Deviation: MONO=±75 kHz, Stereo=±67.5 kHz±7.5 kHz (Korea/USA/Canada Version)
- * Deviation: MONO= \pm 40 kHz, Stereo= \pm 40 kHz \pm 7.5 kHz (Europe Version)
- * Test point: TP1=90.1 MHz, TP2=98.1 MHz, TP3=106.1 MHz (Korea/USA/Canada Version)
- * Test point: TP1=90 MHz, TP2=98 MHz, TP3=106 MHz (Europe Version)

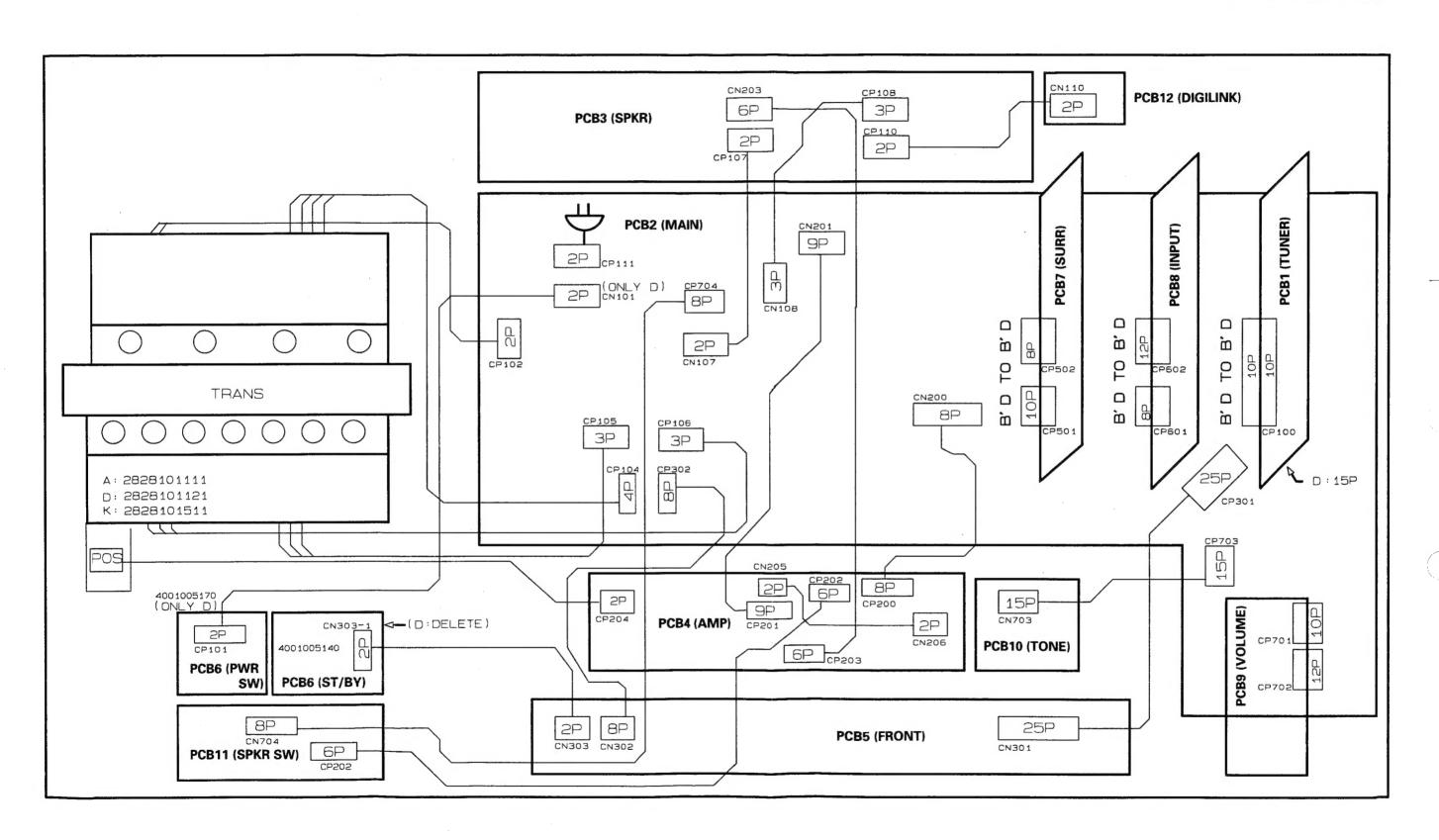
NO	DESCRIPTION	00 11112; 11 0 10	VERSION	UNIT	LIMIT	NOMINAL
1		LOW~HIGH	· · · · · · · · · · · · · · · · · · ·		× 50600000000000000000000000000000000000	8 #X85000000000000000000000000000000000000
1 '	Tuning Cover Range	LOW~RIGH	Korea/USA/Canada	MHz		-107.9
	Step AUTO/Man.		Europe	1415-	87.5~108 200/200	
	Step	AUTO/Man.	Korea/USA/Canada	kHz		
2	Usable Sensitivity	TP1	Europe	dBf		0/50
~	S/N=30 dB	TP2	Korea/USA/Canada		≤17.2	≤14.2
i	3/N-30 dB	TP3		dBf	≤17.2	≤14.2
1	 S/N=26 dB	TP1	Europe	dBf dBf	≤17.2	≤14.2
	13/N-20 dB	TP2	Europe	dBf	≤20.2 ≤20.2	≤17.2 <17.0
		TP3		dBf	≤20.2 ≤20.2	≤17.2 ≤17.2
3	Full Limiting Sense	Output= -3 dB	K/UCA/C		≤15.2	
١	Carriering Serise	Output -3 dB	Korea/USA/Canada Europe	ubi	≤ 15.2 ≤ 20.2	≤12.2 ≤17.2
4	Auto Stop Level		Larope	dBf	31.2(±5)	
5	Signal to Noise Ratio	MONO	Korea/USA/Canada		≥65	31.2(±3)
ľ	l la la Hoise Hado	Morto	Europe	dB	≥62	≥70 ≥66
		STEREO	Korea/USA/Canada		≥60 ≥60	≥65 ≥65
		OTENEO	Europe	dB	≥60	≥63 ≥63
6	Total Harmonic Distortion	MONO		%	≤0.5	≤0.3
-				70		20.5
		STEREO		%	≤0.8	≤0.5
				,,,		20.5
7	50 dB Quieting Sensitivity	MONO	Korea/USA/Canada	dBf	≤23.2	≤20.2
		STEREO		dBf	≤48.3	≤ 45.3
	46 dB Quieting Sensitivity	MONO	Europe	dBf	≤23.2	≤20.2
		STEREO		dBf	≤ 48.3	≤ 45.3
8	Frequency Response at ±1.	5 dB		Hz/kHz	20/12.5	10/14
9	Channel Separation	100 Hz	Korea/USA/Canada	dB	≥35	≥40
			Europe	dB	≥32	≥37
		1 kHz	Korea/USA/Canada	dB	≥40	≥45
			Europe	dB	≥37	≥42
		10 kHz	Korea/USA/Canada	dB	≥30	≥35
			Europe	dB	≥27	≥32
10	Spurious Response		Korea/USA/Canada	dB	≥70	≥80
			Europe	dB	≥80	≥90
11	IF Rejection	TP1		dB	≥70	≥80
					≥70	≥80
12	Image Rejection	TP3	Korea/USA/Canada	dB	≥60	≥65
			Europe	dB	≥70	≥80
13	AM Rejection ratio		Korea/USA/Canada	dB	≥50	≥55
			Europe	dB	≥47	≥52
	Capture ratio			dB	≤2.5	≤2
15	Output Level	MONO		mV	500 ± 150	500 ± 100

GENERAL

	
Power consumption	A: 2.3A, D: 550W, K: 450W
Power Supplies	A: AC 120v, 50Hz
. over supplies	(USA/Canada Version)
	D: AC 230V, 50Hz
	(Europe Version)
	K: AC 220V, 60Hz
	(Korea Version)
Dimensions (W×H×D)	440 × 125 × 300mm
	17-5/16 × 4-15/16 × 11.8inchs
\Moight (Not)	10.5kg

BLOCK DIAGRAM

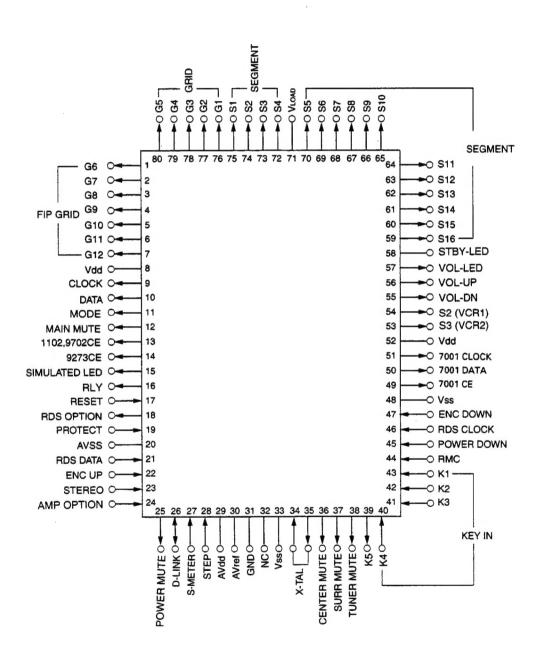




CIRCUIT DESCRIPTION

IC301: µPD 78043AGF-209-3B9

1. Pin Description



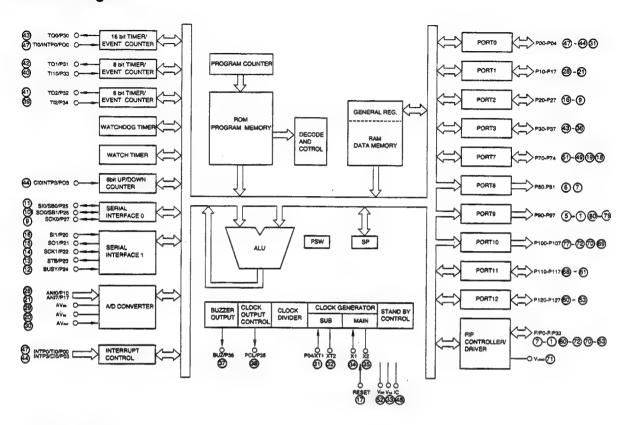
2. Input & Output Terminal Functions

Pin No.	Symbol	Description
1~7	G6~G12	Grid signal output for FIP.
8	Vdd	+5V power supply.
9	CLK	Output, clock signal to TC9273, NJW1102 and NJU9702.
10	DATA	Output, data signal to TC9273, NJW1102 and NJU9702.
11	MODE	Output, control output for ByPass Mode and surr Mode.
12	MAIN	Output for main mute.
	MUTE	Output is low level under the following conditions.
		When power is turned on or off.
		2. When function is changed.
		3. When MONO or STEREO is changed.
		4. When Low level is inputed to PROTECT port of CPU.
		5. When mute signal is received from the commander.
13	1102, 9702 CE	Chip enable output for NJW1102 and NJU9702.
14	9273 CE	Chip enable output for TC9273.
15	SIMULATED LED	protection of the second of th
16	RLY	Output for driving Power Relay (Active High)
17	RESET	Input for resetting CPU. (Active High)
18	RDS OPTION	Control output for RDS mode. (This output is used only for R325RDS)
19	PROTECT	Signal input for protection.
		When low Level is inputed, it is changed to STAND BY mode.
20	AVss	This pin provides the ground potential.
21	RDS DATA	RDS data input of TDA7330BD. (This input is used only for R325RDS)
22/47	ENC UP/DOWN	Input for Encoder Volume up and down.
		(CW) (CCW)
		——————————————————————————————————————
23	STEREO	Input for lighting the "STEREO" indicator. (Active Low)
24	AMP OPTION	Input for selecting AV 5060.
25	POWER MUTE	When the power is on, control data output is High after 3 seconds.
		When the power is off, control data output is "L".
26	D-LINK	Input/Output for controlling digi-link .
27	S-METER	Input signal level of Tuner.

Pin No.	Symbol	Description						
28	STEP	According to region, input for selecting the frequency bands and steps for						
		FM and AM						
		Settings are as follows						
		REGION FREQUENCY BAND STEP PIN21(IC301)						
ł		USA/ FM: 87.5~107.9 MHz 200 kHz						
		CANADA AM: 520~1710 kHz 10 kHz 5 V						
		EUROPE FM: 87.5~108 MHz 50 kHz						
		AM: 522~1611 kHz 9 kHz 2.5 V						
		KOREA FM: 87.5~107.9 MHz 200 kHz						
		AM: 522~1611 kHz 9 kHz 0 V						
29	AVdd	Power supply of analog A/D converter.						
30	AVref	Referance voltage of analog A/D converter.						
31	GND	Ground						
32	NC	Not Used!						
33	Vss	This pin provides the ground potential.						
34/35	X-TAL	Input/Output for crystal oscillator.						
36	CENTER	Output for center mute.						
	MUTE	Output is low level under the following conditions.						
		1. When power is turned on or off.						
		2. When center mode is on or off.						
İ		3. When center mode is switched.						
		4. When test tone mode is on or off, When the channels is changed to the test						
		tone mode.						
		5. When Low level is inputed to "PROTECTION" of CPU.						
		6. When mute signal is received from the commander.						
37	SURR.	Output for surround mute.						
ļ	MUTE	Output is low level under the following conditions.						
i		When power is turned on or off.						
		2. When surround mode is on or off.						
		When test tone mode is on or off, When the channels is changed the test tone mode.						
		4. When delay time is changed.						
		5. When Low level is inputed to "PROTECTION" of CPU.						
1		6. When mute signal is received from the commander.						
		3						

Pin No.	Symbol	Description					
38	TUNER	Output for tuner mute.					
	MUTE	Output is high level under the following conditions.					
ļ		1. When power is turned on or off.					
		2. When tuner band is changed.					
		When tuning up or down button is pressed.					
		When preset button is pressed.					
		5. When displayed preset number is changed during memory scan.					
		6. When Low level is inputed to "PROTECTION" of CPU.					
		7. When mute signal is received from the commander.					
39~43	KEY IN 5~1	Input data of K₅~K₁ for key scan.					
44	RMC	Input for remote control signal.(Active low)					
45	PWR DN	Input for power down.(Active low)					
46	RDS CLOCK	RDS clock signal input for TDA7330B.(This input is used only for R325RDS)					
48	Vss	Ground					
49	7001 CE	Chip enable output for LM7001.					
50/51	7001 CLK/DATA	CLOCK/DATA signal output for LM7001.					
52	Vdd	+5V power supply.					
53/54	S3/S2	Output to select the video signal VCR1 or VCR2.					
		Output data for LA7952 is as follows.					
		MODE S2 S3 REMARKS					
		VCR1 L H Initial settings					
		VCR2 H L					
		OTHERS \triangle \triangle : Previous state					
		* Last memory function is available					
55/56	VOL-DOWN/UP	Output data for volume control.					
57	VOL-LED	Signal for volume led.					
58	STBY-LED	Output signal for standby led.					
59/60	SEG 16/15	Segment signal output for FIP.					
61~68	SEG14~7	Segment signal output for FIP and key scan.					
71	Vload	-30V Power supply for FIP.					
, ,							
69~75	SEG6~1	Segment signal output for FIP.					

3. Block Diagram



4. Key Matrix

	KSCAN1 PIN 61	KSCAN2 PIN 62	KSCAN3 PIN 63	KSCAN4 PIN 64	KSCAN5 PIN 65	KSCAN6 PIN 66	KSCAN7 PIN 67	KSCAN8 PIN 68
KEY IN1	DISPLAY	BAND	TAPE M	REAR ▽	TUNE	SIMULATED	3-STEREO	1
PIN 43	SW333	SW326	SW325	SW320	SW311	SW319	SW316	SW301
KEY IN2	SEARCH	FM MODE	CEN MODE	TUNE	0	5	THEATER	2
PIN 42	SW332	SW327	SW324	SW312	SW310	SW305	SW317	SW302
KEY IN3 PIN 41	EON TA SW331	MEMORY SW328	FREQ SW313	REAR SW321	9 SW309	7 SW307	HALL SW318	3 SW303
KEY IN4	EON PTY		CENTER	CENTER	8	6	PTY	4
PIN 40	SW330		△ SW323	∇ SW322	SW308	SW306	SW334	SW304
KEY IN5 PIN 39	SLEEP (STBY) SW336	OFF SW314	Prologic SW315					

ALIGNMENT PROCEDURES

TUNER

1. Equipment Required

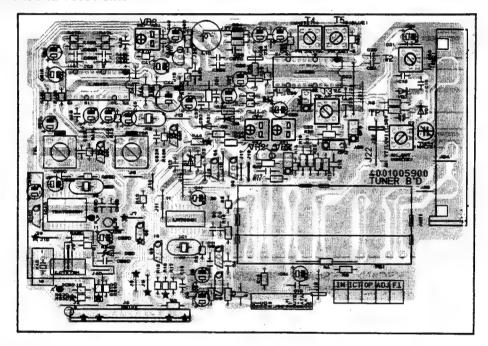
- AM Standard Signal Generator (AM SSG)
- Oscilloscope
- AC Voltmeter
- FM Standard Signal Generator (FM SSG)
- Stereo Modulator

- Audio Generator
- Distortion Meter
- DC Voltmeter
- Frequency Counter

Note: Disconnect external FM antenna prior to alignment.

2. Alignment

2-1. Alignment and Test Point



2-2. AM Alignment

- · Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- · Signal generator modulation: 30 %
- · RF signal frequency: 400 Hz
- Switch : Press the BAND button to AM

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	Tuning Voltage	520kHz (522kHz)	520kHz 1) (522kHz)	DC Volt meter to J22 (TP1)	T2 AM OSC(R)	DC 1.32V±1.35V
2	RF Tuning	600kHz (594kHz)	600kHz 1) (594kHz)	AC voltmeter and oscilloscope to	T1 MW ANT(W)	Maximize
		1400kHz (1404kHz)	1400kHz 2) (1404kHz)	speaker terminal of L or R channel	TC1	audio output
		the appliance.		ntenna through the test	· ·	cm distant from

3	IF	1000kHz (999kHz)	1000kHz (999kHz)	Ac voltmeter and oscilloscope to speaker terminal of L or R channel	Maximize audio output
4	Tuned Level	1000kHz (999kHz) 800 W/m	1000kHz (999kHz)		"Tuned" flag in the FL display light on

3-3. FM Alignment

- · Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- · Signal generator deviation : USA/Canada/Korea : 75kHz. Europe : 40kHz
- · RF signal frequency: 1 kHz
- · Switch : Press the BAND button to FM and the FM MODE button to MONO

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	Tuning Band Width	98.1MHz (98MHz)	98.1MHz (98MHz)	DC Volt meter to R26(PCB1)	T4	Zero reading on DC Volt meter
2	THD	98.1MHz (98MHz)	98.1MHz (98MHz)	Distortion meter to TAPE OUT jack of L or R channel	T5	Minimize distortion
3	Tuned Level	98.1MHz (98MHz) SSG output level : 10	98.1MHz (98MHz)		VR2	"Tuned" flag in the FL display light on

3-4. MPX Alignment

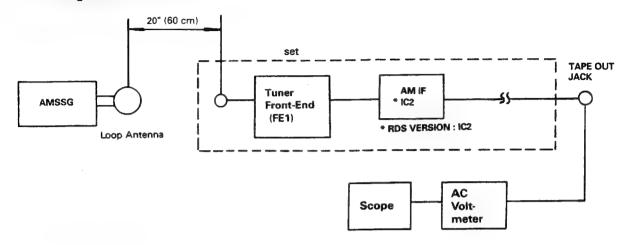
- · Signal generator frequency: 98 MHz
- · Signal generator deviation : USA : 75kHz. Europe : 40kHz
- RF signal frequency: 1 kHz
- · Signal generator output level : 1000 ∠V/m
- Connect signal generator to FM antenna terminal through FM dummy antenna (75 Ω)
- · Switch : Press the BAND button to FM and the FM MODE button to STEREO

Step	Subject	19 kHz Modulation Level	Signal Generator Setting	Equipment Connection	Adjustment Point	Adjust for
1	Seperation R → L	8 % Modulation	Pilot on	AC voltmeter to speaker terminal of R channel AC voltmeter to speaker terminal of L channel	VR3	Set AC voltmeter to 0 dB AC voltmeter reading should be at least 40 dB below
2	Seperation L → R	8 % Modulation	Pilot on	AC voltmeter to speaker terminal of L channel AC voltmeter to speaker terminal of R channel	VR3	Set AC voltmeter to 0 dB AC voltmeter reading should be at least 40 dB below

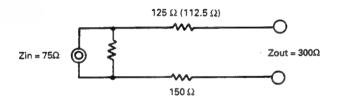
If you could not obtain -40 dB readings in steps 1 and 2, readjust VR3 until you obtain -40 dB readings. Nominal is -45 dB. (Europe: Nominal -42 dB, Limit -37 dB)

4. Equipment Connection

4-1. AM Alignment Connection

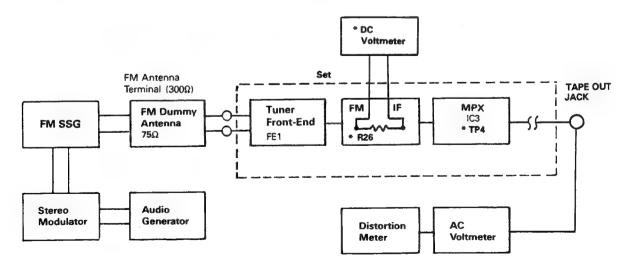


4-2. FM Dummy Antenna



FM Dummy Antenna to 300Ω Antenna terminal of system.

4-3. FM RF/IF and MPX Alignment Connection



TROUBLESHOOTING

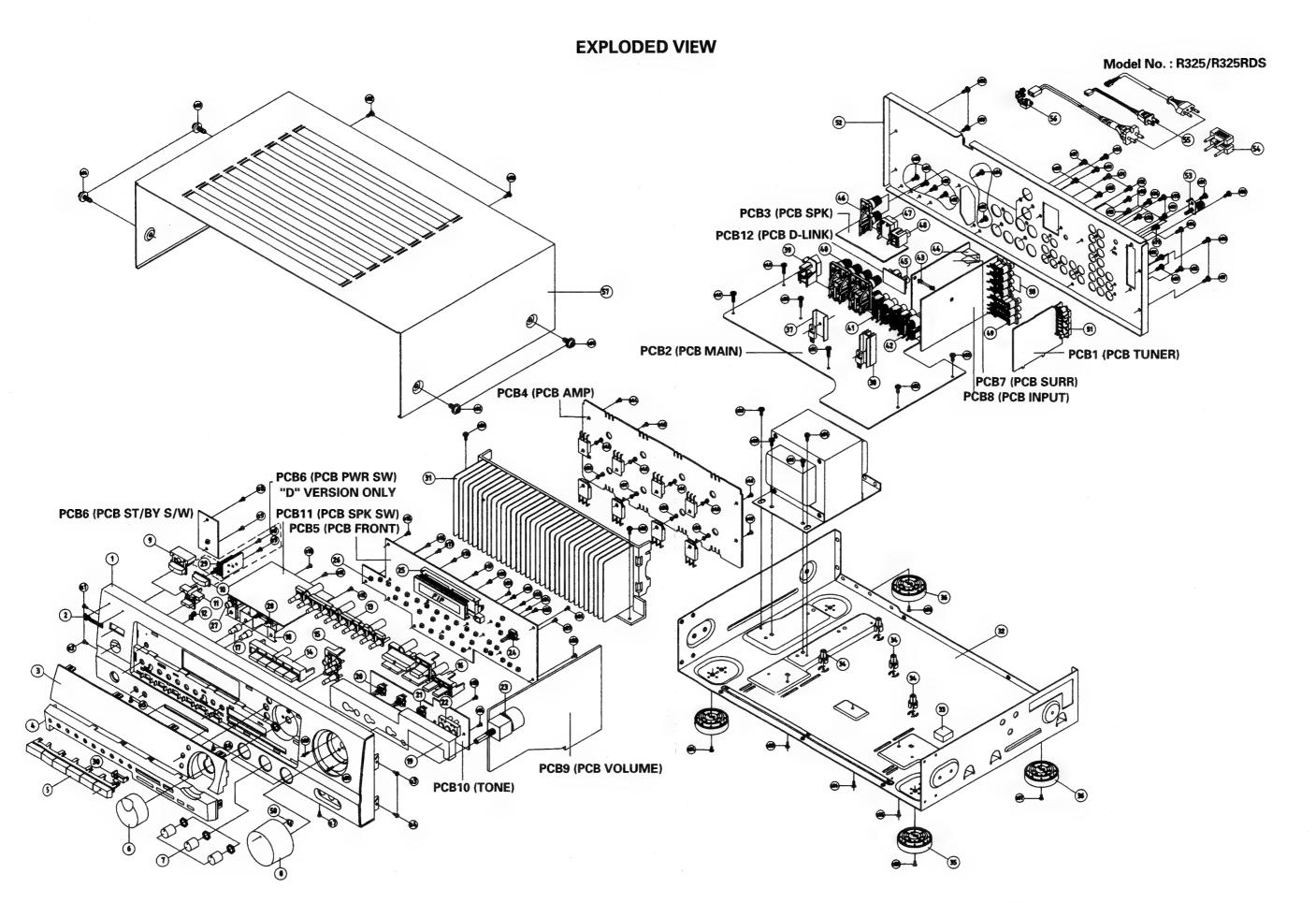
Symptom	Cause and Remedy
Receiver inoperative. (FL indicator does not light.)	 A) Faulty AC power cord. Replace. B) Defective power switch. Replace. C) Broken wire in the power transformer. Replace the power transformer. D) Blown fuse. Replace the fuse.
Fuse blows when power is turned on.	A) Defective power transformer. Replace. B) Short on the primary or secondary of the transformer circuitry. Repair the short. C) Damaged rectifier D118 or damaged transistor Q210 L/R/C/S Q211 L/R/C/S. Replace the defective component(s). D) Short circuit in the amplifier circuit. Replace the shorted component(s) in the amplifier circuit.
Power indicator lights but no sound from both channels.	A) Defect in transistor Q210 L/R, Q211 L/R or Q205 L/R on the Amp Board. Replace the defective component(s).
One channel does not work when volume is at maximum with a test signal applied to the center terminal of volume control of the dead channel.	 A) Defect in transistors Q210 L/R or Q205 L/R on the Main Amp Board. Replace the defect. B) Break in copper foil of printed circuit board. Repair the defect. C) Short in speaker output terminal. Repair or replace.
Speaker works normally but headphones inoperative.	A) Defective headphone plug. Replace the plug. B) Defective resistor R735L/R. Replace.
FM inoperative	 A) Defective front-end (FE). Replace. B) Defective FM switch. Replace the switch. C) Defective transistor Q3 and ICS (IC2,IC3). Replace the defective transistor or IC(s). D) Defective coil T4,T5. Replace the coil(s). E) Defective lead-in. Repair or replace the lead-in. F) Ceramic filters CFI,CF3 defective. Replace the defective ceramic filter(s).

Symptom	Cause and Remedy
Poor multiplex separation.	A) Improper adjustment. Readjust VR3. (Refer to MPX Alignment.) B) IC3 defective. Replace. C) Variable resistor VR3 defective. Replace the variable resistor.
STEREO indicator does not light.	A) Defective indicator in FL. Replace. B) Improper adjustment of VR2 of tuner board. Make readjustment. C) Defective IC2. Replace the defective component.
FM volume is insufficient.	A) If volume from both L and R channels is not loud enough: Front end section defective. Faulty IC2, Coil T4 or T5. If sound of one channel is not loud enough: Defective VR3.
FM Mono has no effect.	A) Defective FM MODE switch. Replace.
AM inoperative.	 A) Damaged IC2 of tuner board. Replace. B) Defective T1,T2,T3 or CF4 of Tuner Board. Replace the defective component(s). C) Defective AM switch. Replace. D) Defective varicap diodes VD1 or VD2. Replace varicap diods(s). E) Damaged AM loop antenna. Repair or replace.
Bass control has no effect	A) Variable resistor BASS defective. Replace.

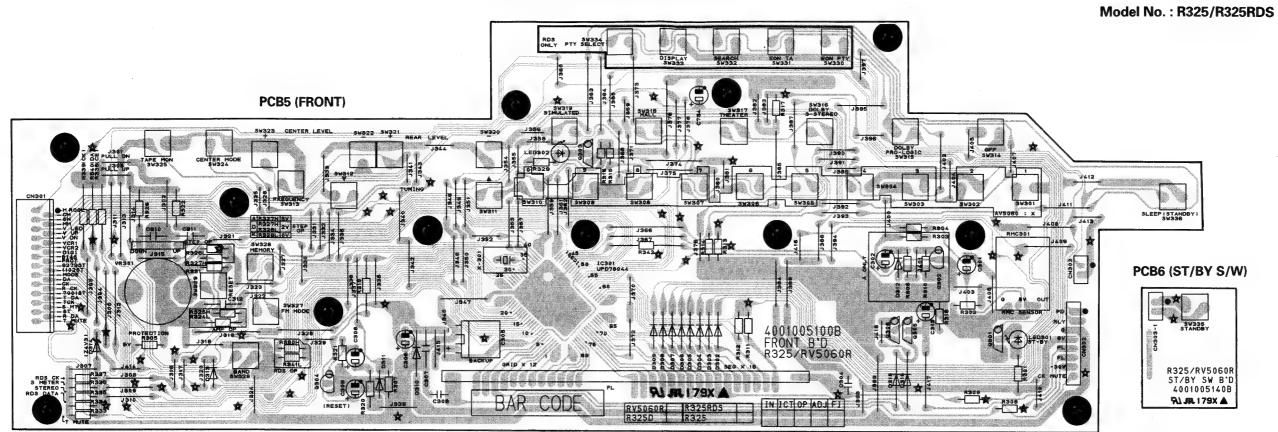
Symptom	Cause and Remedy
Treble control has no effect.	A) Variable resistor TREBLE defective. Replace.
Auto tune inoperative. (UP/DOWN)	A) Poor contact in Up/Down key. Repair or replace. B) Defective IC301. Replace. C) Defective tuner circuit components. Replace. D) In case of FM only, improper adjustment of FM front-end. Readjust.
Manual tune inoperative. (UP/DOWN) (AM or FM)	A) Poor contact in Up/Down key. Replace. B) Defective IC301. Replace.
Memory setting inoperative.	A) Poor contact in memory keys 1-10. Replace. B) Defective IC301. Replace the defective component.
FL inoperative.	A) FL defective. Replace. B) Defective IC301. Replace C) Defective D113 and D114. Replace.
Noisy volume control.	A) Defective volume. Replace.
Remote Control Unit inoperative.	A) Weak battery. Replace. B) Defective. Replace. C) Defective Remote sensor. Replace.

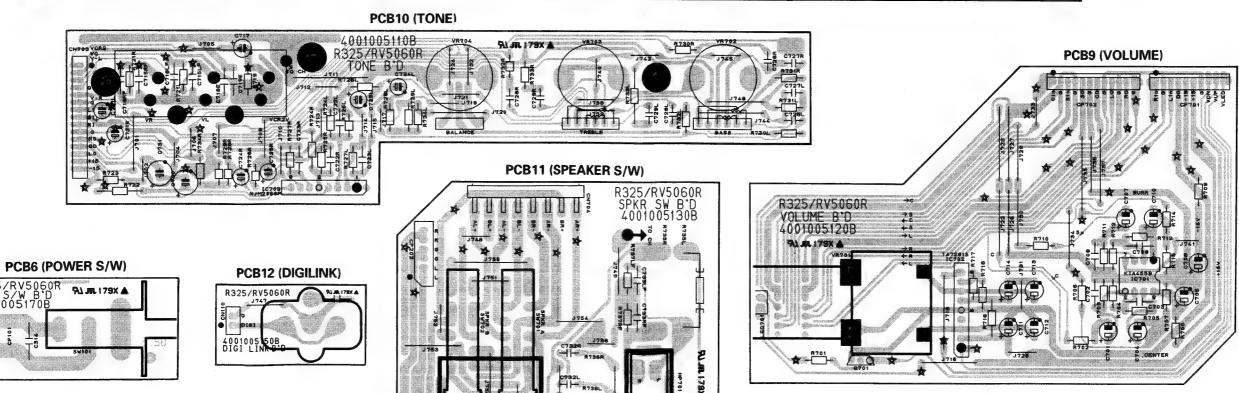
MECHANICAL PARTS LIST

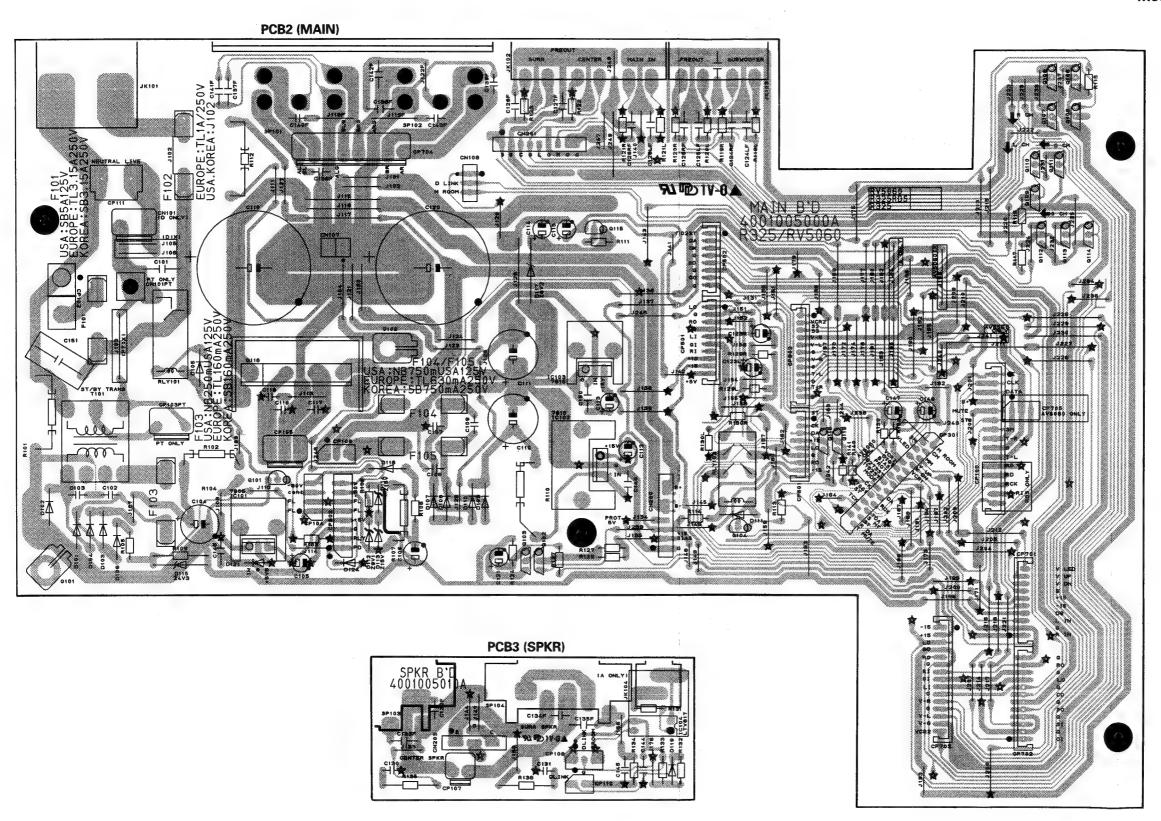
REF. NO.	DESCRIPTION	PARTS NO. Q'TY VERSION	REF. NO. DESCRIPTION	Io.: R325/R325RDS parts no. QTY versio
	PACKAGE		HARDWARE KIT	
	BOX CARTON	601704179003 1 K	\$1-\$30 SCREW#B 8TT3x8B	BO20030083B1 30
	BOX CARTON	601704179002 1	S31-S35 SCREW #2 WPTC3x8Y	B010530101W1 5
	POLY BAG	633004009201 1	S36-S43 SCREW HEAT SINK	150704113601 8
	FILM SOFT PE	632004005201 1	S44-S47 SCREW#B BTT3x8B	BO20030083B1 4
	CUSHION POLY	623004376401 1	S48-S51 SCREW #2 BTC3x20Y	B010530201B1 4
	COSTILON FOLT	020001010101	S52-S53 SCREW #2 WPTC3x8Y	B010530101W1 2
	ACCESSORIES		\$54-\$71 SCREW#B BTT3x6B	BO20030083B1 17
	ANTENNA AM LOOP STAND-TYPE	E60101000000 1	S72-S73 SCREW GROUND	150704099601 E
		E60501001000 1	S74 SCREW#B BTT3x8B	802003008381 1
	ANTENNA WIRE FM MATCHING TRANS	L10928400710 1 A,K	S75-S76 SCREW GROUND	150704099601
		L10928400720 1 D.RDS	S77-S78 SCREW #B BTT3x8B	BO20030083B1 2
	MATCHING TRANS			150704099601 2
	COMMANDER ASS"Y	830004025W01 1 830004025W03 1 K	S79-S80 SCREW GROUND S81-S83 SCREW #B BTT3x6B	BO20030083B1 3
	COMMANDER ASSTY	G670001R5012 2		150704099601 1
	BATTERY 1.5V AA(R6M)			BO20030083B1 8
	MANUAL INSTRUCTION		\$85-\$93 \$CREW #B BTT3x8B	
	MANUAL INSTRUCTION	570704637001 1 K	S94-S97 SCREW BSAM4x8B	8020940083B1 4
	MANUAL INSTRUCTION	570704593001 1 D		
	MANUAL INSTRUCTION	570704593002 1 RDS	MISCELLANEOUS	200000101111 1 1
			POWER TRANSFORMAR, 120V 60Hz	820028101111 1 A
	CABINET & CHASSIS		POWER TRANSFORMAR, 220V 60Hz	820028101511 1 K
1	PANEL FRONT	306704599101 1 A,K	POWER TRANSFORMAR, 230V 50Hz	820028101121 1 D,RDS
(1)	PANEL FRONT	306704220102 1 D		
(1)	PANEL FRONT	306704220103 1 RDS	PCB1 P.C.BDARD TUNNER	702005776000 1
2	BADGE,SHERWOOD	563704059101 1	PCB2 P.C.BDARD MAIN	702004048000 1
3	WINDOW FL,	507704490301 1 A,K	PCB3 P.C.BDARD SPKR	1
(3)	WINDOW FL,	507704005301 1 D	PCB4 P.C.BDARD AMP	702004044000 1
(3)	WINDOW FL.	507704490302 1 RDS	PCB5 P.C.SDARD FRONT	702004049000 1
4	DECORATION CAP(DUMMY)	450704203101 1 A,K	PCB6 P.C.BDARD POWER SW	1 D,RDS
(4)	DECORATION CAP(DUMMY)	512704095101 1 D	PCB6 P.C.8DARD ST/BY SW	1 A,K
(4)	DECORATION CAP(DUMMY)	512704092101 1 RDS	PCB7 P.C.BDARD SURROUND	702005362000 1
5	BUTTON FUNCTION (6KEY)	509708933101 1 A,K	PCB8 P.C.BDARD INPUT	702004064000 1
(5)	BUTTON FUNCTION (6KEY)	509704648101 1 D.RDS	PCB9 P.C.SDARD VOLUME	1
(<i>)</i>	KNOB ENCODER	509005921101 1	PCB10 P.C.BDARD TONE	1
7	KNOB ROTARY	509705064101 3	PCB11 P.C.BDARD SPKR SW	1
8	KNOB MAIN	509005922101 1	PCB12 P.C.BDARD D-LINK	1
9	BUTTON POWER -A	509005907101 1 A,K	1 0010 1 10.001110 0 2.1111	•
10	BUTTON POWER -D	509005399101 1 D,RDS		
11	BUTTON STANDBY	509008683101 1		
		516004059301 1		
12	INDICATOR	509005920101 1		
13	BUTTON MEMORY (10KEY)	509005918101 1 RDS		
14	BUTTON RDS(5KEY)			
15	BUTTON MEDE (3KEY)			
16	BUTTON TUNNING (9KEY)	509708934101 1 A.K		
(16)	BUTTON TUNNING (9KEY)	509704649101 1 D,RDS		
17	BUTTON PUSH	509006682101 2		
18	BRACKET PHONE	401004361601 1		
19	SHIELD TONE	307004653601 1		
20	SWITCH BALANCE	C45511140200 1		
21	SWITCH TREBLE/BASS	C45512140230 2		
22	JACK RCA (3P)	G60604030000 1		
23	VOLUME MOTOR	C49514530001 1		
24	SWITCH ENCODER	C45004203001 1 .		
25	HOLDER FL	432004078101 1		
26	SWITCH TACT	G18004050001 35		
27	JACK PHONE	G40204016133 1		
28	SWITCH PUSH	G00004117000 2		
29	SWITCH PUSH POWER	G00004159000 1 D,RDS		
30	INDICATOR FUNCTION	516004081301 1		
31	HEAT SINK POWER	212004087801 1		
32	CHASSIS MAIN	320004477601 1		
33	SPONGE	405004434501 1		
34	SPACER	430004056101 4		
35	FOOTAL	400704102101 2		
36	FOOT PL	400004020101 2		
37	HEAT SINK REG TR	212004429801 2		
38	HEAT SINK REG TR	212004480801 1		
39	AC OUTLET	G43504014000 1 A		
(39)	AC OUTLET	G43004040001 1 K		
(39)	AC OUTLET	G43504011000 1 D,RDS		
	SPK TERMINAL (8P)	G61404021000 1		
40 41		G60240045003 1 A,D		
41	RCA JACK (4P)			
42	RCA JACK (6P)			
43	FASTENER			
44	BRACKET INSERT	307004558601 1 RDS		
45	RCA JACK (2P)	G60120116003 1		
46	SPK TERMINAL (2P)	G61104031000 1		
47	SPK TERMINAL (4P)	G59404047000 1		
48	DIGI LINK (1P)-A	G40204207000 1 A,only		
49	RCA JACK (9P)	G60790150001 1		
50	RCA JACK (4P)	G60240045003 1		NOTICE
51	ANT TERMINAL	G59004047000 1 A,K	PRODUCT SAFETY	NOTICE
(51)	ANT TERMINAL	G59004045000 1 D,RDS		
52	CHASSIS BACK	320704283603 1 A	Each precaution in this manual should b	e followed during servicis a
(52)	CHASSIS BACK	320704283601 1 K		
	CHASSIS BACK	320705320603 1 D	Components identified with the IEC sym	
(52)		320705320603 1 RDS	special significance to safety. When	replacing a componen
(52)	CHASSIS BACK		identified with A , use only the replace	
53	GROUND TERMINAL	G61004006001 1		
54	PLUG JUMPER	L06304075000 1	parts with the same ratings of resistan	
55	AC POWER CORD	L06104005101 1 A	are designated in the parts list in this	nanual.Leakage-current o
(55)	AC POWER CORD	L06104035103 1 K	resistance measurements must be made	
(55)	AC POWER CORD	L06104040103 1 D,RDS		
	CORD STOPPER	438004016201 1		the supply choult below
57	COVERTOP	300004475601 1	returning the product to the customer.	
(55) (55) 56 57 58	AC POWER CORD CORD STOPPER	L06104040103 1 D,RDS 438004016201 1	resistance measurements must be parts are acceptably insulated returning the product to the custo	d from



PRINTED CIRCUIT BOARDS

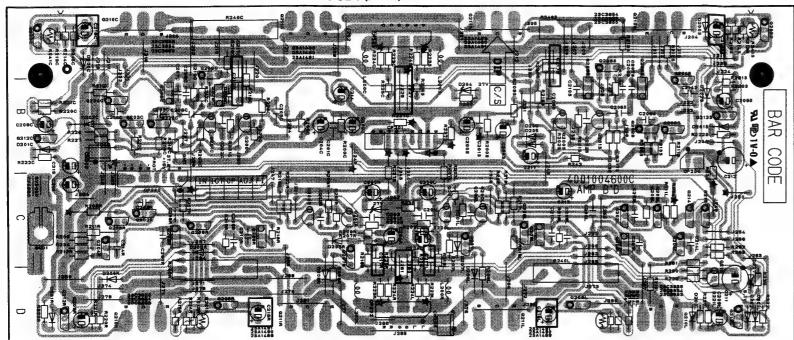


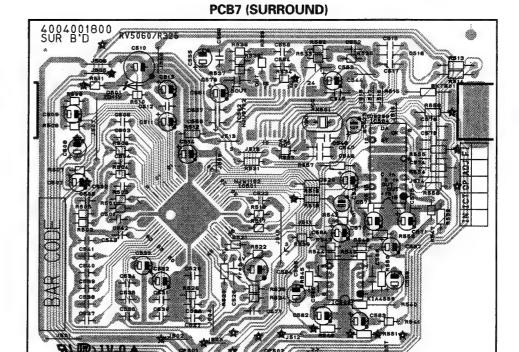




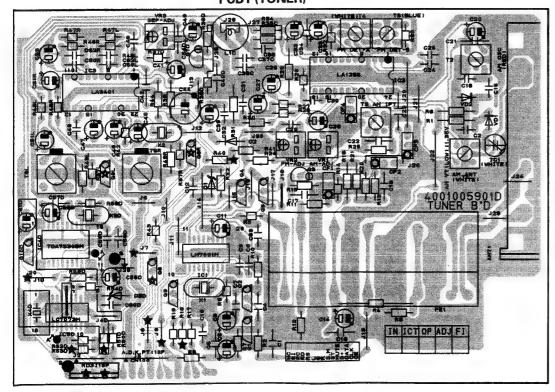
Model No.: R325/R325RDS

PCB4 (AMP)

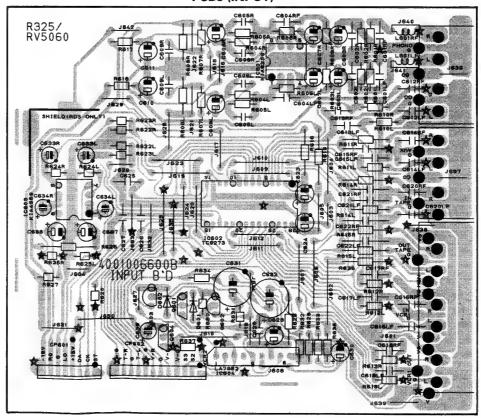




PCB1 (TUNER)



PCB8 (INPUT)



ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTICE : Products marked with Δ have special characteristics important to safety.

If you replace any of these components, read carefully the product safety notice in this manual. Don't degrade the safety of the product through improper servicing.

Resistor/Capacitor tolerance – D : $(\pm 0.5\%)$, J : $(\pm 5\%)$, K : $(\pm 10\%)$, M : $(\pm 20\%)$, Z : (+80, -20%)

REF.NO	DESCRIPTION	40.100.00			PART NO.	Q'ty V	ERSION	REF.NO	DESCRIPTION	476	ab	415 \A1 1	PART NO.	C'ty VER
PCB1	ASSEMBLY P.C.BOARD TO	JNER (A,K, VE	RSION)				R15	METAL FILM	470			C06004716P52	1
	CAPACITORS							R16 R17-R19	METAL FILM	100		1/5 W J 1/5 W J		3
C1		0.022	μĒ	25 V		1		R17-R19	METAL FILM	330		1/5 W J		1
C2		0.047	AF.		D00447309706	1		R21	METAL FILM METAL FILM	270		1/5 W J		1
Ç3	ELECTROLYTIC SG	3.3	, all		D0403R308710 D00510377353	1		R22	METAL FILM	470		1/5 W J		1
C4	CERAMIC TUBULAR	0.01	jE	16 V		1		R24	METAL FILM	4.7		1/5 W J		1
C5	ELECTROLYTIC SG	47	µ₹.	16 V M	D04047008310	1		R25	CARBON FILM	68		1/5 W J		1
C6		0.022	μĒ	25 V	D00522357453	i		R26	CARBON FILM	18		1/5 W J		1
C7	CERAMIC TUBULAR	0.01	雌	16 V	D00510377353			R27	CARBON FILM	10		1/5 W J		1
C8/C9	CERAMIC DISC CH	18	pF	50 V	D00018016707	2		R28	CARBON FILM	22		1/5 W J		1
C10	CERAMIC DISC	100	ρF		D00410106706	1		R29	and the second s	22		1/5 W J		1
C11	ELECTROLYTIC SG	47	μĒ	16 V M		1		R30	METAL FILM METAL FILM	4.7		1/5 W J		1
C12		0.022	μĒ		D00422309706	1		R31		10		1/5 W J		1
C13		0.022	page .	25 V	D00522357453	1			CARBON FILM			1/5 W J		4
C14	ELECTROLYTIC SG	100	Æ	16 V M		1		R32	CARBON FILM	5.6 3.3		1/5 W J		•
C15	POLY	470	рF	50 V J	D02247106705	1		R33	METAL FILM	100		1/5 W J		1
C16	CERAMIC DISC CH	15	рF	50 V	D00015016707	1		R34	METAL FILM	100		1/5 W J		1
C17/C18		0.022	μĒ	25 V	D00522357453	2		R39	METAL FILM			1/5 W J		1
C20	ELECTROLYTIC SG	10	μĒ	35 V M		1		R40	CARBON FILM	47		1/5 W J		4
C21/C22		0.022	μĒ	25 V	D00522357453	2		R41	CARBON FILM	22		1/5 W J		4
223	CERAMIC TUBULAR	0.01	page .	16 V	D00510377353	1		R42	METAL FILM	3.3				
C24/C25	CERAMIC DISC	0.022	μĒ		D00422309706	2		R43	CARBON FILM	22		1/5 W J		1
C26	ELECTROLYTIC SG	4.7	μĒ		D0404R708710	1		R44	CARBON FILM	47		1/5 W J		,
C27	ELECTROLYTIC SG	3.3	μF		D0403R308710	1		R46L/R	CARBON FILM	120		1/5 W J		2
C28	ELECTROLYTIC SG	4,7	AF.		D0404R708710	1		R47L/R	CARBON FILM	180		1/5 W J		2
C29		0.022	Æ		D00422309706	1		R48L/R	METAL FILM	2.7		1/5 W J		2
30		0.022	μF	100V J	D02022306C06	1		R49L/R	METAL FILM	3.3		1/5 W J		2
231	MYLAR C	0.0033	Ja€	100V J	D02033206C06	1		R57L/R	METAL FILM	1.5	kohm	1/5 W J	C06001526P52	2
C32		0.039	μF		D02039306C06	1								
233	ELECTROLYTIC SG	1	uF	50 V №	D04001008710	1			COILS					
C34		0.022	ø₽.	25 V	D00522357453	1		T1	AM-ANT				D30401000000	1
35	ELECTROLYTIC SG	100	Jag.	16 V M		1		T2	AM-OSC				D94001001000	1
36	CERAMIC DISC	330	pF	50 V J	D00433106706	1		T3	AM-IFT P-7SB				D95001005000	1
239	ELECTROLYTIC SG	10	μF	35 V M	D04010008510	1		T4	FM-DET-A				D97001004000	1
241	ELECTROLYTIC SG	4.7	, F	50 V M	D0404R708710	1		T5	FM-DET-B				D97001006000	1
242	CERAMIC TUBULAR	0.047	Æ	50 V	D00547309753	1		T6L/R	MPX(19/38kHz) BLK				E40101001000	2
243	CERAMIC DISC	680	ρF	50 V J		1								
244	ELECTROLYTIC SG	100	øF.		D04010108310	1			SEMI FIXED VAREABLE	RESIST	ORS			
245	ELECTROLYTIC SG	1	Æ	50 V M		1		VR1	5K(B)-H				C54150211500	1
246	ELECTROLYTIC SG	0.22	, Je		D040R2208710	1		VR2	50K(B)-H				C54150311500	1
C47	ELECTROLYTIC SG	1	je.	50 V M	-	1		VR3	200K(B)-H				C54120411500	1
C48	CERAMIC DISC	0.022	, if		D00422309706	1								
C49	ELECTROLYTIC SG	10	Æ	35 V M		1			MISCELLANEOUS					
050L/R	CERAMIC DISC	560	pF	50 V J	D00456106706	2		TC1	TRIMMER	10	ρF		D11010090110	1
	ELECTROLYTIC SG	10	pr ME	35 V M		2		X1	X7M2				E80072000008	1
C51L/R C53	ELECTROLYTIC SG	10		35 V №	D04010008510	1		X2	CSB456F				E83045600005	1
C62L/R		68	ja€ ⊐.	50 V J	D00068006706	2		FE1	FTA4-556HB				E90045560010	1
COZUR	CERAMIC DISC	00	pF	50 4 5	500000000000000000000000000000000000000	-		51	ANT TERMINAL				G59004047000	1 A,K
	CONNECTOR													
N100	PLUG 10P,35238-1010				L12252419100	1								
214100	PEDG 107,33230-1010				E1222110700	•		PCB1	ASSEMBLY P.C.BOARD	TUNER	D,RDS	VERSIC	N)	
	CERAMIC FILTERS								CAPACITORS					
F1	SFE10.7MA8-A-TF21				E43010700014	1		C1	CERAMIC TUBULAR	0.022	Æ	25 V	D00522357453	1
CF3	SFE10.7MA8-A-TF21				E43010700014	1		C2	CERAMIC DISC	0.047	æ	50 V 2	D00447309706	1
CF4	CFM2-450BL				E43145000012	1		C3	ELECTROLYTIC SG	3.3	- F	50 V N	D0403R308710	1
J	C-M2-308L					•		C4	CERAMIC TUBULAR	0.01	"E	16 V	D00510377353	1
	DIODES							C5	ELECTROLYTIC SG	47	"E	16 V N		1
14	DIODES				K06005R11452	1		C6	CERAMIC TUBULAR	0.022	µE Æ	25 V	D00522357453	1
21	ZENER, UZ 5.1 BSB				K00003R11452	1		C7	CERAMIC TUBULAR	0.022	pĒ.	16 V	D00510377353	1
D1 A / D2	SWITCHING, 1N4148M				K08003210052			CB/C9	CERAMIC DISC CH	18	pF	50 V	D00018016707	2
/D1/VD2	"VARACTOR, SVC321SPA-0	-			7.000032 10032	4		C10	CERAMIC DISC	100	pF pF	50 V J		1
										100	Est,	16 V N		1
	INTEGRATES SIRSINGS									47				
24	INTEGRATED CIRCUITS				112470010004	4		C11	ELECTROLYTIC SG	47 0.022	µ₹ .s.		D00422309705	1
	LM7001M				J12470010001	1		C12	ELECTROLYTIC SG CERAMIC DISC	0.022	μF	50 V 2	D00422309706	1
C2	LM7001M LA1255G				J12412660000	1		C12 C13	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR	0.022 0.022	µF µF	50 V Z 25 V	D00522357453	
IC2	LM7001M							C12 C13 C14	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG	0.022 0.022 100	рБ рБ рБ	50 V 2 25 V 16 V W	D00522357453 D04010108310	1
C2	LM7001M LA1255G LA3401				J12412660000	1		C12 C13 C14 C15	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY	0.022 0.022 100 470	дб дб дб рб	50 V 2 25 V 16 V W 50 V J	D00522357453 D04010108310 D02247106705	1
C2 C3	LM7001M LA1255G LA3401 TRANSISTORS				J12412660000 J12434010000	1		C12 C13 C14 C15 C16	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH	0.022 0.022 100 470 15	м ² м ² м ² м ³	50 V Z 25 V 16 V N 50 V J	D00522357453 D04010108310 D02247106705 D00015016707	1 1 1
C1 C2 C3	LM7001M LA1266G LA3401 TRANSISTORS 2SC1740S, NPN				J12412660000 J12434010000 J5021740Y005	1 1 2		C12 C13 C14 C15 C16 C17/C18	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR	0.022 0.022 100 470 15 0.022	ह्मी ह्मी ह्मी ह्मी ह्मी	50 V Z 25 V 16 V W 50 V J 50 V 25 V	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453	1 1 2
C2 C3	LM7001M LA1265G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN				J12412660000 J12434010000 J5021740Y005 J5023194Y005	1 1 2 1	-	C12 C13 C14 C15 C16 C17/C18 C20	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG	0.022 0.022 100 470 15 0.022	ही ही ही ही ही ही ही ही ही ही ही ही ही ह	50 V 2 25 V 16 V N 50 V 3 50 V 25 V 35 V N	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D04010008510	1 1 2 1
C2 C3 21/Q2 23 24-Q6	LM7001M LA1266G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP				J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005	1 1 2 1 3	-	C12 C13 C14 C15 C16 C17/C18 C20 C21/C22	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR	0.022 0.022 100 470 15 0.022 10	16 16 16 16 16 16 16 16 16 16 16 16 16 1	50 V 2 25 V 16 V W 50 V 3 50 V 25 V 35 V M 25 V	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D04010008510 D00522357453	1 1 1 2 1 2
C2 C3	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN				J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J602323TS005	1 1 2 1 3 2		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR	0.022 0.022 100 470 15 0.022 10 0.022 0.01	成 成 成 の で の で が 成 が の が れ が の が れ が れ が れ が れ が れ が れ が れ	50 V 2 25 V 16 V N 50 V 3 50 V 25 V 35 V N 25 V	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D04010008510 D00522357453 D00510377353	1 1 1 2 1 2
C2 C3 21/Q2 23 24-Q6 28L/R	LM7001M LA1266G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP				J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005	1 1 2 1 3		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR	0.022 0.022 100 470 15 0.022 10 0.022 0.01	· 在 · 在 · 在 · 在 · 在 · 在 · 在 · 在 · 在 · 在	50 V 2 25 V 16 V W 50 V 3 50 V 25 V 35 V W 25 V 16 V 25 V 25 V	D00522357453 D04010108310 D02247106705 D0001501670 D00522357453 D04010008510 D00522357453 D00510377353 D00422309706	1 1 1 2 1 2 1 2
C2 C3 21/Q2 23 24-Q6 28L/R	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN				J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J602323TS005	1 1 2 1 3 2		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7	成 成 成 の で の で が 成 が の が れ が の が れ が れ が れ が れ が れ が れ が れ	50 V 2 25 V 3 16 V N 50 V 3 50 V 25 V 16 V 25 V 16 V 25 0 V N	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D04010008510 D00522357453 D00510377353 D00422309706 D00404R708710	1 1 1 2 1 2
C2 C3 21/Q2 23 24-Q6 28L/R	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN				J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J602323TS005 J601107M0005	1 1 2 1 3 2		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3	· 在 · · · · · · · · · · · · · · · · · ·	50 V Z 25 V 16 V N 50 V Z 50 V N 25 V N 50 V Z 50 V N 50 V N	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00522357453 D00510377353 C D00402309706 D0404R708710 D0403R308710	1 1 2 1 2 1 2 1 1 1
C2 C3 C1/Q2 C3 C4-Q6 C8L/R C9	LM7001M LA1265G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP		kohm	1/5 W J	J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J602323TS005	1 1 2 1 3 2	-	C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7	在	50 V 2 25 V 16 V W 50 V 2 50 V 25 V 16 V 50 V 2 50 V N 50 V N	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D04010008510 D00522357453 D00510377353 D00422309706 D00402309706 D0404R708710 D0403R308710 D0404R708710	1 1 2 1 2 1 2 1 1 1 1 1 1
C2 C3 21/Q2 23 24-Q6 28L/R 29	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP RESISTORS	100	kohm	1/5 W J	J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J6023237S005 J601107M0005 C00001046P52 C00005628P52	2 1 3 2 1	-	C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7	在在地方的有有有有有有有	50 V 2 25 V 16 V N 50 V 25 V N 25 V N 16 V N 50 V N	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 D0042309706 D0404R708710 D0404R708710 D0404R708710	1 1 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1
C2 C3 C1/Q2 C3 C4-Q6 C8L/R C9	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM	100	kohm	1/5 W J	J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J602323TS005 J601107M0005 C00001046P52	1 1 1 2 1 3 2 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7 0.022	at at at at at at at at at at at at at a	50 V 2 25 V 16 V W 50 V 35 V M 25 V M 50 V 2 5 V M 50 V M	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 D004048708710 D0403R308710 D0404R708710 D0404R708710 D0404R708706 D0404R708706 D0404R708706 D0404R708706 D0404R708706 D0404R708706	1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3 C1/Q2 C3 C4-Q6 C8L/R C9	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM	100 5.6	kohm kohm	1/5 W J 1/5 W J	J12412660000 J12434010000 J5021740Y005 J5023194Y005 J601107M0005 J6023237S005 J601107M0005 C00001046P52 C00005628P52	1 1 1 2 1 3 2 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7	在在地方的有有有有有有有	50 V 2 25 V 16 V W 50 V 25 V 25 V 16 V 25 V 16 V 25 V 16 V 25 V 16 V 25 V 16 V 16 V 16 V 16 V 16 V 16 V 16 V 1	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 D00510377353 D004048708710 D0042309706 D00422309706 D00422309706 D00422309706 D00202306C06 D02023306C06	1 1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1
C2 C3 C1/Q2 C3 C4-Q6 C8L/R C9	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC3237S, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM	100 5.6 22	kohm kohm kohm	1/5 W J 1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J6021077M0005 J602323TS005 J6011077M0005 C00001046P52 C00005626P52 C00002236P52	1 1 1 2 1 3 2 1		C12 C13 C14 C15 C16 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7 0.022	at at at at at at at at at at at at at a	50 V 2 25 V 16 V W 50 V J 50 V J 50 V M 50 V M 50 V M 50 V M 50 V M 100 V M 100 V M 100 V M	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 Z D00422309706 D0404R708710 D0404R708710 D0402309706 D02023306C06 D02033906C06	1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3 21/Q2 23 24-Q6 28L/R 29	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM METAL FILM	100 5.6 22 100 470	kohm kohm kohm ohm	1/5 W J 1/5 W J 1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J50231947005 J601107M0005 J601107M0005 C00001046P52 C00005626P52 C0000236P55 C000001046P52	1 1 1 2 1 3 2 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30 C31	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7 0.022 0.022		50 V 2 25 V 16 V W 50 V J 50 V J 50 V M 50 V M 50 V M 50 V M 50 V M 100 V M 100 V M 100 V M	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 D00510377353 D004048708710 D0042309706 D00422309706 D00422309706 D00422309706 D00202306C06 D02023306C06	1 1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1
C2 C3 21/Q2 23 24-Q6 28L/R 29	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC3237S, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM	100 5.6 22 100 470 100	kohm kohm kohm ohm kohm	1/5 W J 1/5 W J 1/5 W J 1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J50231947005 J601107M0005 J602323TS005 J601107M0005 C00001046P52 C00002336P52 C00001046P52 C00001046P52 C00001046P52	1 1 1 1 3 2 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30 C31 C32	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR	0.022 0.022 100 470 15 0.022 10 0.022 0.01 0.022 4.7 3.3 4.7 0.022 0.022	· 在 · 在 · 在 · 在 · 在 · 在 · 在 · 在 · 在 · 在	50 V 2 25 V 16 V W 50 V J 50 V J 50 V M 50 V M 50 V M 50 V M 50 V M 100 V M 100 V M 100 V M	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 Z D00422309706 D0404R708710 D0404R708710 D0402309706 D02023306C06 D02033906C06	1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3 	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC3237S, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM	100 5.6 22 100 470 100	kohm kohm ohm ohm kohm	1/5 W J 1/5 W J 1/5 W J 1/5 W J 1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J50231947005 J601107M0005 J602323TS005 J601107M0005 C00001046P52 C00005626P52 C0000236P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001036P52	1 1 1 2 1 3 2 1 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C22 C24/C25 C26 C27 C28 C29 C30 C31 C32 C32 C33 C33	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR CECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR	0.022 0.022 100 470 15 0.022 10 0.022 4.7 3.3 4.7 0.022 0.033 0.039	· 经销售公司 电电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电	50 V 2 25 V 16 V N 50 V 2 50 V N 25 V N 50 V N	D00522357453 D0247106705 D00015016707 D00522357453 D00401008510 D00522357453 D00510377353 D00510377353 D004087708710 D0042309706 D0042309706 D0042309706 D02023306C06 D02023306C06 D020339306C06 D020339306C06	1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3 21/Q2 23 24-Q6 Q8L/R 29 R1 R2 R3 R4 R5 R6 R7 R8	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM	100 5.6 22 100 470 100 10	kohm kohm ohm ohm kohm ohm	1/5 W J 1/5 W J 1/5 W J 1/5 W J 1/5 W J 1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J50231947005 J601107M0005 J602323TS005 J601107M0005 C00001046P52 C00002336P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52	1 1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C27 C28 C29 C30 C31 C32 C33 C34 C35	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC DISC	0.022 0.022 100 470 15 0.022 0.01 0.022 4.7 0.022 0.033 0.039 1 0.022	·	50 V 2 25 V 16 V 8 50 V 2 50 V 16 V 8 50 V 16 V 8 50 V 16 V 16 V 16 V 16 V 16 V 16 V 16 V 1	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D00510377353 D00510377353 D004048708710 D00422309706 D00422309706 D00422309706 D02023306C06 D02033206C06 D02033906C06 D02033906C06 D02033906C06 D04087087453	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC3237S, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM	100 5.6 22 100 470 100 10 270 560	kohm kohm ohm kohm kohm ohm	1/5 W J 1/5 W J	J12412860000 J12434010000 J50217407005 J50231947005 J601107M0005 J601107M0005 C00001046P52 C00005236P52 C00001236P52 C00001046P52 C00001046P52 C00001036P52 C00001036P52 C06002716P52 C0600516P52	1 1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC DISC	0.022 0.022 100 470 15 0.022 10 0.022 4.7 3.3 4.7 0.022 0.033 0.039 1 0.022 0.023	· 经销售价值 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	50 V 2 25 V 16 V 8 50 V 2 55 V 16 V 2 55 V 16 V 2 50 V 16 V 2 50 V 10 V 100 V 100 V 100 V 16 V 16 V 16	D00522357453 D0247106705 D00015016707 D00522357453 D00401008510 D00522357453 D00510377353 D0040377353 D004048708710 D0042309706 D0042309706 D00423096C06 D0202306C06 D02023306C06 D02032306C06 D02032306C06 D02032306C06 D02033306C06	1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC3237S, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM	100 5.6 22 100 470 100 10 270 560	kohm kohm ohm kohm kohm ohm ohm	1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J50231947005 J601107M0005 J601107M0005 C00001046P52 C00005626P52 C0000236P52 C00001046P52 C00001046P52 C00001046P52 C00001036P52 C00001036P52 C06005716P52 C06005716P52 C0600516P52 C0600126P52	1 1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC DISC CERAMIC DISC CERAMIC DISC CERAMIC DISC	0.022 0.022 100 470 15 0.022 10 0.022 4.7 3.3 4.7 0.022 0.0033 0.039 1 0.022 100 330 82	· 格特· 格特· 哈特· 格特· 格特· 格特· 格特· 格特· 格特· 格特· 格特· 格特· 格	50 V 2 25 V 16 V N 50 V 2 50 V 25 V 16 V 25 V 16 V 2 50 V 16 V 2 50 V 10 V 2 100 V 2 100 V 2 100 V 3 50 V 10 V 3 50 V 3	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D004010008510 D00522357453 D00402339706 D00402309706 D00402309706 D00402309706 D02033206C06 D02033206C06 D02033206C06 D02033206C06 D04001008710 D0052357453	1 1 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1
C2 C3	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC323TS, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM	100 5.6 22 100 470 100 270 560 1	kohm kohm ohm kohm ohm ohm ohm ohm	1/5 W J 1/5 W J	J12412660000 J12434010000 J12434010000 J5021740Y005 J601107M0005 J602323TS005 J601107M0005 C00001046P52 C00002336P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001046P52 C00001036P52 C06002716P52 C06001876P52	1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C36 C37 C38 C36 C37 C38 C36 C37 C38 C36 C37 C38 C36 C37 C38 C36 C37 C38 C38 C38 C38 C38 C38 C38 C38 C38 C38	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC DISC CH CERAMIC DISC CH CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC DISC	0.022 0.022 100 470 15 0.022 10 0.022 4.7 3.3 4.7 0.022 0.0033 0.039 1 0.022 0.0033 1 0.039 1 0.022	त्री संस्थित के त्री	50 V 2 25 V 16 V 8 50 V 2 55 V 16 V 8 50 V 16 V 8 50 V 16 V 8 50 V 16 V 8 50 V 100 V 8 50 V 100 V 8 50 V 100 V 8 50 V 8	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D0051037735 D00403708710 D004048708710 D00402309706 D00402309706 D02033206C06 D02033206C06 D02033206C06 D02033206C06 D02033206C06 D02033206C06 D0203306C06	1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1
C2 C3	LM7001M LA1286G LA3401 TRANSISTORS 2SC1740S, NPN KTC1923Y/KTC3194Y, NPN KRA107M/DTA114YS, PNP DTC3237S, NPN KRA107M/DTA114YS, PNP RESISTORS CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM METAL FILM	100 5.6 22 100 470 100 10 270 560	kohm kohm ohm kohm kohm ohm ohm ohm ohm	1/5 W J 1/5 W J	J12412660000 J12434010000 J50217407005 J50231947005 J601107M0005 J601107M0005 C00001046P52 C00005626P52 C0000236P52 C00001046P52 C00001046P52 C00001046P52 C00001036P52 C00001036P52 C06005716P52 C06005716P52 C0600516P52 C0600126P52	1 1 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1		C12 C13 C14 C15 C16 C17/C18 C20 C21/C22 C23 C24/C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C	ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG POLY CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC TUBULAR CERAMIC DISC ELECTROLYTIC SG ELECTROLYTIC SG CERAMIC DISC MYLAR MYLAR MYLAR MYLAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC DISC CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC TUBULAR ELECTROLYTIC SG CERAMIC DISC CERAMIC DISC CERAMIC DISC CERAMIC DISC	0.022 0.022 100 470 15 0.022 10 0.022 4.7 3.3 4.7 0.022 0.0033 0.039 1 0.022 100 330 82	13 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	50 V 2 25 V 16 V 2 50 V 25 V 16 V 25 V 16 V 2 50 V 16 V 2 50 V 10 V	D00522357453 D04010108310 D02247106705 D00015016707 D00522357453 D004010008510 D00522357453 D00402339706 D00402309706 D00402309706 D00402309706 D02033206C06 D02033206C06 D02033206C06 D02033206C06 D04001008710 D0052357453	1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1

DET 110					DARTHO	O# . \FB010\1		DEENO	DESCRIPTION				2.27.10		· et mouou
REF.NO C42	DESCRIPTION CERAMIC FURNILAR	0.047		50 V	D00547309753	Q'ty VERSION		REF.NO R42	METAL FILM	3.3	kohm	1/5 \A/ 1	C06003326P52		VERSION
C43	CERAMIC TUBULAR CERAMIC DISC	680	af of	50 V J	_	i		R43	CARBON FILM	22		1/5 W J			
C44	ELECTROLYTIC SG	100	Æ		D04010108310	1		R44	CARBON FILM	47		1/5 W J			
C45	ELECTROLYTIC SG	1	Æ	50 ∨ M	D04001008710	1		R46L/R	CARBON FILM	220			C00002246P52	2	
C46	ELECTROLYTIC SG	0.22	,		D040R2208710	1		R47L/R	CARBON FILM	270			C00002746P52		
C47 C48	ELECTROLYTIC SG	1 0.022	aF r		D04001008710 D00422309706	1		R48L/R R49L/R	METAL FILM METAL FILM	2.7 3.3		1/5 W J 1/5 W J		2	
C49	CERAMIC DISC ELECTROLYTIC SG	10	pē Pē	35 V M		1		R50D	METAL FILM	680			C06006816P52	1	
C50L	CERAMIC DISC	220		50 V J		1			CARBON FILM	10			C00001036P52	ė	
C50R	CERAMIC DISC	220		50 V J	D00422106706	1		R56D	CARBON FILM	2.2	Mohm	1/5 W J	C00002256P52	1	
C51L/R	ELECTROLYTIC SG	10	zd	35 V M				R57L/R	METAL FILM	1.5	kohm	1/5 W J	C06001526P52	2	
C53	ELECTROLYTIC SG	10	,	35 V M		1			SEMI FIXED VAREABLE	DECICE	one				
C54D C55D	CERAMIC TUBULAR ELECTROLYTIC SG	270 47	pF M	50 V	D00527107753 D04047008310	1		VR1	SK(B)-H	RESIS I	UKS		C54150211500	1	
C56D	ELECTROLYTIC SG	10	AF.	35 V M		1		VR2	50K(B)-H				C54150311500	1	
C57D	CERAMIC TUBULAR	0.1	uF.	50 V	D00510409753	1		VR3	200K(B)-H				C54120411500	1	
C58D/C598	CERAMIC DISC	27	pF			5									
C60D	CERAMIC DISC	0.1	μĒ	50 V Z		1		TC1	MISCELLANEOUS . TRIMMER	40			D44040000440		
C62IJR	CERAMIC DISC	10	pF	50 V J	D00010006706	2		X1	X7M2	10	sF		D11010090110 E80072000008	1	
	CONNECTOR							X2	CSB456F				E83045600005	1	
CN:100	PLUG, 15P M.O				L11252419190	1		X3D	X4M332				E80043320006	1	
								FE1	FTH4-460H				E90044600011	1	
	CERAMIC FILTERS				E40040700046			(51)	ANT TERMINAL				G59004045000	1	D,RDS
CF1 CF3	10M7S3GH 10M7S3GH				E43010700015 E43010700015										
CF4	CFM2-450BL				E43145000012			PCB2	ASSEMBLY P.C.BOARD	MAIN					
									CAPACITORS						
	DIODES							2 C101	CERAMIC	0.0047	"F	400 V	D00847208K01	1	
D1	ZENER, UZ 5.1 BSB				K06005R11452		<u> </u>	C102/C103		0.047	Æ		D02047306C06	2	
D2	SWITCHING, 1N4148M				K00041480152			C104 C105	ELECTROLYTIC SG ELECTROLYTIC SG	220	JeF E	35 V M	D04022108520 D04001008710	1	
D3D VD1/VD2	ZENER, UZ 5.1 BSB VARACTOR, SVC321SPA-C				K06005R11452 K08003210052			C106	ELECTROLYTIC SG	47	تمبر تمبر	50 V M		1	
1011102	VANAO 1 ON, G 1 OOZ 10 FA-O				100000210002	•	1	C107-C109		0.047	Æ	100V J		3	
	INTEGRATED CIRCUITS							C110/C111		1000	Æ	35 V M		8	
IC1	LM7001M				J12470010001	1			ELECTROLYTIC SG	1	AF.	50 V M		2	
IC2 IC3	LA1266G				J12412660000	1		C114 C115	ELECTROLYTIC SG ELECTROLYTIC SG	10 47	Æ	50 V M 25 V M		1	
IC4D	LA3401 TDA7330BD				J12434010000 J02073300001	1		C116-C118		0.01	µ€ Æ		D02010306K08	3	
10-15	100,0000				00201000001	•			ELECTROLYTIC HM	8200	æ	63 V	D04082208836	2	
	COILS							C121	ELECTROLYTIC SG	22	· F	16 V 🖽	D04022008310	1	
L1C	20M8H				D33020800112			C123L/R	ELECTROLYTIC SG	1	Æ	50 V M	D04001008710	2	
T1	AM-ANT				D30401000000	1		C124LF C124RF	CERAMIC TUBULAR CERAMIC TUBULAR	100 100	ρF	50 V	D00110107753	1	D,RDS
T2 T3	AM-OSC AM-IFT P-7SB				D94001001000 D95001005000	1		C125LF	CERAMIC TUBULAR	100	pF pF	50 V 50 V	D00110107753 D00110107753	1	D,RDS D,RDS
T4	FM-DET-A				D97001004000	1		C125RF	CERAMIC TUBULAR	100	pF	50 V	D00110107753	1	D.RDS
T5	FM-DET-B				D97001006000	1		C126LF	CERAMIC TUBULAR	100	ρF	50 V	D00110107753		D,RDS
T6L/R	MPX(19/38kHz) BLK				E40101001000	2		C126RF	CERAMIC TUBULAR	100	рF	50 V	D00110107753	1	D,RDS
								C127F C128F	CERAMIC TUBULAR	100	pF	50 V	D00110107753	1	D,RDS
Q1/Q2	TRANSISTORS				15004740V005	2		C129LF	CERAMIC TUBULAR CERAMIC TUBULAR	100 100	of of	50 V 50 V	D00110107753 D00110107753	1	D,RDS D,RDS
Q3	2SC1740S, NPN KTC1923Y/KTC3194Y, NPN				J5021740Y005 J5023194Y005	1		C129RF	CERAMIC TUBULAR	100	pF	50 V	D00110107753		D,RDS
Q4-Q6	KRA107M/DTA114YS, PNP				J601107M0005	3		C136F	CERAMIC DISC	0.0047	pĒ.	50 V Z	D00447209706		D.RDS
Q7D	2SC1740S, NPN				J5021740Y005	1		C137F	CERAMIC TUBULAR	0.0047	μĒ	16 V	D00547277353		D,RDS
QBL/R	DTC323TS, NPN				J602323TS005	2		C138F C139F	CERAMIC TUBULAR	0.0047	Æ	16 V	D00547277353		D,RDS
Q9	KRA107M/DTA114YS, PNP				J601107M0005	1		C140F	CERAMIC DISC CERAMIC DISC	0.0047	jåF ≥	50 V Z	D00447209706 D00447209706		D,RDS D,RDS
	RESISTORS							C141F	CERAMIC TUBULAR	0.0047	µĒ Æ	16 V	D00547277353		D,RDS
R1	CARBON FILM	100	kohm	1/5 W J	C00001046P52	1		C142F	CERAMIC TUBULAR	0,0047	aF.	16 V	D00547277353		D,RDS
R2	CARBON FILM	5.6			C00005626P52	1		C143F	CERAMIC DISC	0.0047	uF.	50 V Z	D00447209706		D,RDS
R3	CARBON FILM	22			C00006236P52	1	A	C146/C147 C151	ELECTROLYTIC SG	1	pF.	50 V M	D04001008710	2	
R4 R5	CARBON FILM	100 470		1/5 W J	C00001046P52 C06004716P52	1	253	CISI	CERAMIC MYLAR	0.1	₽F.	250 V	D02010408H21	1	D,RDS
RS R6	METAL FILM CARBON FILM	100			C00001046P52	1			CONNECTORS						
R7	CARBON FILM	10			C00001036P52	1		CN101	PLUG, JE202B1T2				L10820200022	1	D.RDS
R8	METAL FILM	270	ohm	1/5 W J	C06002716P52	1		CN107	LEAD ASS"Y, 2P,120 mm					1	
R9	METAL FILM	560			C06005616P52	1		CN108	LEAD ASSTY, 2P,120				L02103123331	1	
R10	METAL FILM	1 400			C06001026P52	1		CP100 (CP100)	PLUG, 35337-1020,10P PLUG, 35337-1020,15P						A.K D.RDS
R11 R12	METAL FILM	180 560		1/5 W J	C06001816P52 C06005616P52	1		CP102	PLUG, AC S-2 2P				L10253291190 L10302000000	1	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R13	METAL FILM	3.3			C06003376P52	1		CP104	PLUG, 5267-04P				L10252670040	1	
R14	METAL FILM	560	ohm	1/5 W J	C06005616P52	1		CP105	PLUG, JE202A1T3				L10420200030	1	
R15	METAL FILM	470			C06004716P52	1		CP106	PLUG, 5267-03A				L10252670030	1	
R16	METAL FILM	100			C06001016P52	1		CP111 (CP111)	PLUG, GSCS-1302 PLUG, GSCS-1301				L10402004000		Y BDCK
R17/R18	METAL FILM	330			C06001026P52	2		CN200	LEAD ASS"Y, 8P 80 an				L10402002000 L02108083321	1	0_RDS.K
R20 R21	METAL FILM METAL FILM	330 270			C06003316P52 C06002716P52	1		CN201	LEAD ASS"Y, 9P 200 mg					1	
R22	METAL FILM	470	ohm	1/5 W J	C06004716P52	1		CP301	PLUG 25P FPC				L13162160250	1	
R24	METAL FILM	4.7	kohm	1/5 W J	C06004726P52	1		CP302	PLUG, 5267-08A				L10252670080	1	
R25	CARBON FILM	68			C00006836P52	1		CP501 CP502	PLUG, 10P M.O 2				L10135336100	1	
R26 R27	CARBON FILM CARBON FILM	47 10			C00004736P52 C00001036P52	1		CP601	PLUG, 8P M.O 2 PLUG, 8P M.O 2				L10135336080 L10135336080	1	
R28	CARBON FILM	22			C00001036P52	1		CP602	PLUG, 12P M.O 2				L10135336120	1	
R29	METAL FILM	22			C06002206P52	1		CP701	PLUG, 10P M.O 2					1	
R30	METAL FILM	4.7	kohm	1/5 W J	C06004726P52	1		CP702	PLUG, 12P M.O 2				L10135336120	1	
R31	METAL FILM	2.7			C06002726P52	1		CP703	PLUG 15P, G1L-S-15P-S2	T2				1	
R32	CARBON FILM	5.6		1/5 W J		1		CP704	PLUG, JE202A1T8				L10420200080	1	
R33 R34	METAL FILM METAL FILM	3.3 100			C06003326P52 C06001016P52	1			DIODES						
R35C	METAL FILM	1.8			C06001016P52	1	Δ	D101-D110	RECTIFIER, 1N4003				K04040030052	1	
R36D	CARBON FILM	47			C00004736P52	1		D111	SWITCHING, 1N4148M					1	
R37D	METAL FILM	22	ohm	1/5 W J	C06002206P52	1		D112	ZENER, UZ 9.1 BSC				K06009R12452	1	
R38D	METAL FILM	1			C06001026P52	1			ZENER, UZ 15.0 BSC					2	
R39	METAL FILM	100 ∡7			C06001016P52 C00004736P52	1		D115 D116	ZENER, UZ 4.3BSB RECTIFIER, 1N4003					1	
R40 R41	CARBON FILM CARBON FILM	47 22			C00004736P52 C00002236P52			D117	ZENER, UZ 6.2 BSB				K04040030052 K06006R21452		
		~~			J	•									

REF.NO	DESCRIPTION		2427110										
<u>A</u> D118	BRIDGE DIODE		K04705600001	_	y VERSION	REF.NO R132	DESCRIPTION	20	(b-	4/514/			VERSION
D121	SWITCHING, 1N4148M		K00041480152			R133	CARBON FILM	22 220			C00002236P52 C00002246P52	1	
			1100011700102	,		R134	CARBON FILM	100			C00001046P52	1	
	FUSES						CARBON FILM	10			C00001006352	2	
1 F101	SB 5A 125 V		G65050212115	1		46	SPK TERMINAL (2P)				G61104031000	1	
△ (F101)	TL 3.15A 250 V		G65031225116	1		47	SPK TERMINAL (4P)				G59404047000	1	
(F101)	SB 3.15A 250 V JUMPER		G65031225114	1		48	DIGI LINK (1P)-A				G40204207000	1	A,only
⚠ (F102)	TL 1A, 250 V		L04508400602 G65010225116	1	A D.RDS								
⚠ F103	NB 250 mA 125 V		G65025112116	1	D,RDS	PCB4	ASSEMBLY P.C.BOAR	O AMP					
♠ (F103)	TL 160 _{mA} 250 V		G65031225116	1	D,RDS		CAPACITORS						
	SB 160mA 250 V		G65016125114	1	K	C200C/S	ELECTROLYTIC SG	4.7	nF.	50 V M	D0404R708710	2	
	5 NB 750 MA 125 V		G65075112116	2		C200UR	ELECTROLYTIC SG	4.7	JE.		D0404R708710	8	
	05) TL 630mA 250 V		G65063125116	2		C201C/S	CERAMIC TUBULAR	100	pF	50 V	D00110107753	2	
STZ (L. 1041L.)	05) SB 1A 250 V		G65010225114	2	K	C201L/R C202C/S	CERAMIC TUBULAR CERAMIC TUBULAR	100 560	pF	50 V	D00110107753	2	
	INTEGRATED CIRCUITS					C202C/S	CERAMIC TUBULAR	680	eF pF	50 V 50 V	D00556107753 D00568107753	2	D,RDS
IC101	KA7805		J12678050027	1		C202L/R	CERAMIC DISC	560	DL.	50 V J		2	ט, אטס
IC102	KA7815		J12678150002	1		C202L/R	CERAMIC DISC	680	pf	50 V J	D00468106706	2	D,RDS
IC103	KA7915		J12679150002	1		C203C/S	CERAMIC DISC	12	ρF	50 V J	D00979120130	2	
	TOANGICTORG					C203L/R	CERAMIC DISC	12	pF	50 V J	D00979120130	2	
Q101	TRANSISTORS KTC3206, NPN		J5023206Y005	1		C204C/S C204L/R	ELECTROLYTIC SG	47	as ^c		D04047008410	2	
Q 102	DTA114YS/KRA107M, PNP		J601114YS005	1		C206C/S	ELECTROLYTIC SG CERAMIC TUBULAR	100 3.3	µF oF	10 V M 50 V	D04010108210 D0013R307753	2	
Q103	25C1740S, NPN		J5021740Y005	1		C206C/S	CERAMIC TUBULAR	8.2	pr pF	50 V	D0018R207753	_	D.RDS
Q104	BKTC3199Y/2SC3199Y, NPN		J5023199Y005	1		C206L/R	CERAMIC TUBULAR	3.3	ρF	50 V	D0013R307753	2	0,1100
Q105	DTC114YS, NPN		J60201140005	1		C206L/R	CERAMIC TUBULAR	8.2	of	50 V	D0018R207753		D,RDS
Q106	DTA114YS/KRA107M, PNP		J5009330S005	1		C207C/S	CERAMIC DISC	220	ρF	50 V J	D00422106706	2	
	08 DTC323TS, NPN		J602323TS005	2		C207UR	CERAMIC DISC	220	pF	50 V J	D00422106706	2	
Q109 Q110	DTC114YS, NPN		J60201140005	1		C208C/S	MYLAR	0.047	pF.	100V J	D02047306C06	2	
Q111	DTA114YS/KRA107M, PNP DTC323TS, NPN		J501114YS005	1		C208L/R C209C/S	MYLAR ELECTROLYTIC SC	0.047	μĒ	100V J	D02047306C06	2	
Q112	DTC114YS, NPN		J602323TS005 J60201140005	1		C209L/R	ELECTROLYTIC SG	10 10	pE.	50 V M	D04010008710 D04010008710	2	
Q113	DTA114YS/KRA107M, PNP		J5009330S005	1		C210C/S	CERAMIC DISC	220	ρF	50 V J	D00422106706	2	
Q114	DTC323TS, NPN		J602323TS005	1		C210L/R	CERAMIC DISC	220	pr pf	50 V J	D00422106706	â	
Q115	BKTC3199Y/2SC3199Y, NPN		J5023199Y005	1		C211	ELECTROLYTIC SG	10	36	50 V M		1	
Q118/Q1	I9 DTC114YS, NPN		J60201140005	2		C212	ELECTROLYTIC SA	470	Æ	6.3 V M	D04047108110	1	
						C213/C214	ELECTROLYTIC SG	10	ıÆ.	50 V M	D04010008710	2	
	RESISTORS					C214C/S	CERAMIC DISC	18	pF	50 V J	D00118006706	2	
R101		3 Mohm 1/2 W .		1	A	C214L/R	CERAMIC DISC	18	pF	50 V J	D00118006706	2	
R102	METAL FILM 11			1		C215/C216 C216C/S	ELECTROLYTIC SG	1	pF.		D04001008C10	2	
R103 R104		2 kohm 1/5 W .		1		C216L/R	ELECTROLYTIC SG	10 10	AE.	50 V M	D04010008710	2	
R105	METAL FILM 10 METAL FILM 4.7		C06001006552 C06004726P52	1		C217	ELECTROLYTIC SG	22	pë pë		D04010008710 D04022008710	2	
R106	METAL FILM 100		C06001016P52	i		C217C/S	CERAMIC TUBULAR	8.2	ρF		D0018R207753		AK
R107	METAL FILM 390		C06003916552	i		C217L/R	CERAMIC TUBULAR	8.2	pF		D0018R207753		AK
R108	CARBON FILM 15		C00001536P52	1		C219	CERAMIC TUBULAR	0.1	μF	50 V	D00510409753		DRDS
R109	CARBON FILM 10			1									
R110	METAL FILM 4.7		C0604R706652	1			CONNECTORS						
R111	METAL FILM 2.2		C06002226P52			CP200	PLUG, 5267-08A				L10252670080	1	
R112	METAL FILM 2.2			1		CP201 CP202	PLUG, 5267-09A				L10252670090	1	
R113 R114	METAL FILM 2.2 METAL FILM 330			1		CP202	PLUG, 5267-06A PLUG, 5267-06A				L10252670060	1	
R115	CARBON FILM 8.2		C06003316P52 C00008226P52	1		CP204	PLUG, 5267-02A				L10252670060 L10252670020	1	
R116/R11			C00001036P52	2							L10252670020		
R119L/R	METAL FILM 1		C06001026P52	2			DIODES						
R120L/R	METAL FILM 470		C06004716P52	2		D200C/S	SWITCHING, 1N4148M				K00041480152	2	
R121UR	METAL FILM 470	ohm 1/5 W J	C06004716P52	2		D200L/R	SWITCHING, 1N4148M				K00041480152	2	
R122/R12			. C06001026P52	2		D201C/S	SWITCHING, 1N4148M				K00041480152	2	
R124	CARBON FILM 100		C00001046P52	1		D201L/R	SWITCHING, 1N4148M				K00041480152	2	
R127/R12 R129UR	8 CARBON FILM 33 CARBON FILM 100			2		D202C/S D202L/R	SWITCHING, 1N4148M SWITCHING, 1N4148M				K00041480152	8	
R130UR	METAL FILM 1			2		D203/D204	ZENER, UZ 27.0 BSC				K00041480152 K06027002452	2	
R137	METAL FILM 4.7			1			SWITCHING, 1N4148M					2	
R138		kohm 1/5 W J		1		D207	ZENER, UZ 7.5 BSC				/00000D #0 . CO	1	
R139			C06004726P52	1		D207L/R :	SWITCHING, 1N4148M				K00041480152	2	
R140/R14	1 METAL FILM 2.2	kohm 1/5 W J	C06002226P52	2		D208L/R :	SWITCHING, 1N4148M				K00041480152		
							0011.0						
A B13444	MISCELLANEOUS		000010001			12000/0	COILS				Donnaria		
⚠ RLY101 RLY102	RELAY, CR-7DC12V		G68012502001			L200C/S L200L/R	0.5UH 0.5UH				D33090000132		
ÆLY102 ⚠ T101	RELAY, G5V-2-H1 ST/BY TRANS, 120 V 60Hz			1		LOUDE	0.5011				D33090000132	4	
<u> </u>	ST/BY TRANS, 120 V 50Hz		820028096001 820028090901				TRANSISTORS						
₫ 39	AC OUTLET		G43504014000				BKTC3200/KTC2240BL, N	PN			J5023200B005	2	
(39)	AC OUTLET		G43004040001				BKTC3200/KTC2240BL, N				J5023200B005		
(39)	AC OUTLET		G43504011000				BKTC3200/KTC2240BL, N				J5023200B005		
40	SPK TERMINAL (8P)		G61404021000				BKTC3200/KTC2240BL, N	PN			J5023200B005		
41	RCA JACK (4P)		G60240045003				2SC1740S, NPN				J5021740Y005	2	
42	RCA JACK (6P)		G60360092002	1	A,D,K		2SC1740S, NPN				J5021740Y005		
							2SC1740S, NPN					2	
PCB3	ASSEMBLY P.C.BOARD SPEAK	ED					2SC1740S, NPN KTA1024Y, PNP					2	
	1 MYLAR 0.047		D02047306C06	,			KTA1024Y, PNP				J5001024Y005 J5001024Y005		
C132F	CERAMIC DISC 0.0047		D00447209706		D.RDS		2SC1740S, NPN				J5021740Y005		
C133F	CERAMIC TUBULAR 0.0047		D00547277353				2SC1740S, NPN					2	
C134F	CERAMIC DISC 0.0047		D00447209706				KTC3206, NPN					2	
C135F	CERAMIC TUBULAR 0.0047		D00547277353			Q206L/R	KTC3206, NPN				J5023206Y005		
C144	CERAMIC TUBULAR 270		D00527107753				2SC1740S, NPN				J5021740Y005		
C145	CERAMIC TUBULAR 0.1	⊿F 16 V	D00510409753				KSC2690A-Y				35022690Y000	2	
CP108	PLUG, 5267-03A		L10252670030				KSC2690A-Y				5022690Y000		
CP110	PLUG, 5267-02A		L10252670020				KSA1220A-Y				J5001220Y000		
CN203	LEAD ASS'Y, 6P 180 ms		L02106183321				KSA1220A-Y 25C3854 NDN				15001220Y000 2		
CNT D119	PLUG, JE202 A1T2 SWITCHING 1N4148M		L10420200020				2SC3854, NPN 2SC3855, NPN				J5023854Y000 2		
IC104	SWITCHING, 1N4148M LTV817		K00041480152		Δ.		2SC3855, NPN 2SA1490, PNP				05023855Y000 I		
R131		ohm 1/5 W I	K61481700000 C06002716P52				2SA1491, PNP				35001490Y000 2 35001491Y000 2		
										,		-	

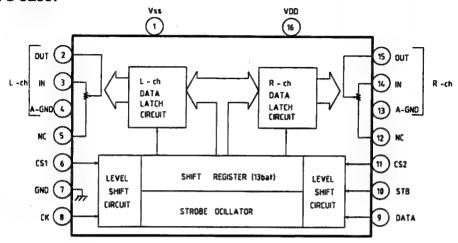
REF.NO	DESCRIPTION			PART NO.	O'tv	VERSION	REF.N	ю	DESCRIPTION					PART NO.	0.4	y VERSION
Q212C/S	2SC1740S, NPN			J5021740Y005	2	VEITOIOIT	CN303	_	LEAD ASSTY, 2P 100 m				_	L02402103231		y VEROICIE
Q212L/R Q213	2SC1740S, NPN			J5021740Y005 J5001267Y005	2				DIODES							
	BKTA1267 "Y", PNP 2SC1740S, NPN			J5021740Y005			D302-0	0311						K00041480152	10	
							D312	1246	SWITCHING, 1N4148M					K00041480152		A
R200C/S	RESISTORS CARBON FILM	kohm 1/3	5 W J	C00003336P52	2		D313-E LED30		SWITCHING, 1N4148M LED, SLR-34URC N49					K00041480152 K50003210124	4	
R200∪R	CARBON FILM 3	kohm 1/	5 W J	C00003336P52	2		LED30	2	LED, SLR-34YC N49					K50003410124	1	
R201C/S	METAL FILM 33			C06003316P52	2	0.000			INTEGRATED CIRCUITS							
R201C/S R201L/R	METAL FILM 68I METAL FILM 33I			C06006816P52 C06003316P52	2	D,RDS	IC 301		UPD78044AGF					J02078044217	1	
R201L/R	METAL FILM 68	ohm 1/	5 W J	C06006816P52	2	D,RDS										
R202C/S R202L/R	METAL FILM 910 METAL FILM 820			C06009116P52 C06008216P52	2		Q301		TRANSISTORS DTC114YS, NPN					J60201140005	1	
R203C/S	METAL FILM 91			C06009116P52	2		Q302		BKTC3199Y/2SC3199Y, N	PN				J5023199Y005	1	A
R203L/R	METAL FILM 821			C06008216P52	2		Q303 Q304		DTC114YS, NPN	- Ch.				J60201140005	1	
R204/R205 R206C/S	CARBON FILM METAL FILM			C00002026P52 C06001026P52	2		Q304 Q305		BKTC3199Y/2SC3199Y, N KRA107M/DTA114YS, PN					J5023199Y005 J601107M0005	1	
R206L/R	METAL FILM	kohm 1/	5 W J	C06001026P52	2		Q306		DTC114YS, NPN					J60201140005	1	
R207L/R R208L/R	CARBON FILM 1: METAL FILM 1:			C00001536P52 C06001526P52	2				RESISTORS							
R209C/S	METAL FILM 1.5			C06001526P52	2		R301		METAL FILM	220	ohm	1/5 W	J	C06002216P52	1	
R209L/R	METAL FILM 1.			C06001526P52	2		R302 R303		CARBON FILM METAL FILM	100 3.9				C00001046P52	1	
R210C/S R210L/R	CARBON FILM 11			C00001036P52 C00001036P52	2		R304		METAL FILM	470		1/5 W		C06003926P52 C06004716P52	1	A
R211C/S	METAL FILM	kohm 1/	5W J	C06001026P52	2		R305		CARBON FILM	100	kohm	1/5 W	J	C00001046P52	1	
R211L/R R212C/S	METAL FILM 8:			C06001026P52 C06008206P52	2		R306 R307		METAL FILM CARBON FILM	100		1/5 W		C06001025P52 C00001046P52	1	A
R212L/R	METAL FILM 8	ohm 1/	5 W J	C06008206P52	2		R310		CARBON FILM	10		1/5 W	-	C00001036P52	1	A
R213C/S	METAL FILM 56			C06005616P52 C06005616P52	2		R311/R R313-R			100		1/5 W		C00001046P52	2	
R213L/R R214C/S	METAL FILM 56			C06001826P52	2		R319	317	METAL FILM CARBON FILM	4,7 100		1/5 W 1/5 W		C06004728P52 C00001046P52	5	
R214UR	METAL FILM 2.3	kohm 1/		C06001826P52	2		R320		METAL FILM	330	ohm	1/5 W	J	C06003316P52	1	
R215C/S R215UR	METAL FILM 1 METAL FILM 1			C06001026P52 C06001026P52	2		R321 R322		CARBON FILM CARBON FILM	10 68		1/5 W		C00001036P52 C00006836P52	1	
R215C/S	CARBON FILM 3			C00003336P52	2		R324L		CARBON FILM	47		1/5 W		C00004736P52	i	
R216UR	CARBON FILM 3			C00003336P52 C06003316P52	2		R326 R327H		CARBON FILM	68		1/5 W	_	C00006836P52	1	
R217C/S R217L/R	METAL FILM 334 METAL FILM 334			C06003316P52	2		R327H		CARBON FILM	47 47		1/5 W		C00004735P52 C00004736P52	1	A,D D.RDS,K
R218C/S	METAL FILM 8	ohm 1/		C06008206P52	2		R329		METAL FILM	180	ohm	1/5 W	J	C06001816P52	1	
R218L/R R219C/S	METAL FILM 85 METAL FILM 225			C06008206P52 C06002216P52	2		R330H R334		CARBON FILM CARBON FILM	47 47		1/5 W		C00004736P52 C00004736P52	1	RDS,only A,D,K
R219L/R	METAL FILM 22			C06002216P52	2		R337		CARBON FILM	47		1/5 W		C00004736P52	1	A,D,K
R220C/S	METAL FILM 33			C06003316P52	2		R338-R R341L	340	CARBON FILM	10 47				C00001036P52	3	154
R220L/R R221C/S	METAL FILM 33 METAL FILM 4.			C06003316P52 C06004726P52	2		R342		CARBON FILM METAL FILM	330				C00004736P52 C06003316P52	1	A,D,K
R221L/R	METAL FILM 4.			C06004726P52	2											
R222C/S R222L/R	CARBON FILM 1: CARBON FILM 1:			C00001536P52 C00001536P52	2		X-301		MISCELLANEOUS RESONATOR, CST4M19					E83041900006	1	
R223C/S	METAL FILM 2			C06002206P52	2		24		SWITCH ENCODER					C45004203001	1	
R223L/R	METAL FILM 2			C06002206P52 C06002206P52	2		26 26		SWITCH TACT SWITCH TACT					G18004050001 G18004050001		RDS A,D,K
R224C/S R224L/R	METAL FILM 2 METAL FILM 2			C06002206P52	2		20		SWITCH TACT					G 1800403000 1	30	ヘレハ
R225C/S	CARBON FILM 1:			C00001236P52	2											
R225L/R R226C/S	CARBON FILM 1: CARBON FILM 6			C00001236P52 C00006836P52	2		PC86		ASSEMBLY P.C.BOARD I CERAMIC	0.0047		H (D,R) 250 ∨		/ERSION) D00847208K03	1	
R227/R228				C00002026P52	2		⚠ CP101		JE 202B-2, T-2					L10820200022	1	
R229	CARBON FILM 1: CARBON FILM 10			C00001036P52 C00001046P52	1		26 29		SWITCH TACT SWITCH PUSH POWER					G18004050001 G00004159000	35	D,RDS
R230 R231	CARBON FILM 10 METAL FILM			C06001046P52	1		23		SWITCH FOSH FOWER					300004 133000		0,700
R232	METAL FILM 1.			C06001526P52	1											
R233 R234	CARBON FILM 4 CARBON FILM 6			C00004736P52 C00006836P52	1		PCB6 CN303-	1	ASSEMBLY P.C.BOARD S CNT, LEAD ASSTY, 2P 100		WITCH	(A,K V		L02402103231	1	
R235	CARBON FILM 7.	kohm 1/	/5 W J	C00007526P52	1		26		SWITCH TACT	-				G18004050001	35	
R236	METAL FILM 3.			C06003926P52	1											
R237C/S R237L/R				C06001026P52 C06001026P52	2		PCB7		ASSEMBLY P.C.BOARD	SURRO	JND					
R238/R239	CARBON FILM 1			C00001036P52	2				CAPACITORS							
R240C/S R240L/R	CEMENT 0.2 CEMENT 0.2			C141R2707930 C141R2707930	2		C501 C502/C	503	POLY MYLAR BOX	680	pF pF			D02268106705 D02010406805	1 2	
R241C/S	THERMISTOR NTC5D-302KPC			F34053020000	2		C504		POLY	680	of.	50 V	J	D02268106705	1	
R241L/R	THERMISTOR NTC5D-302KPC	take 4	/6 \A/ 1	F34053020000 C06003326P52	2		C505/C C507/C		MYLAR BOX ELECTROLYTIC SG	0.1 10	Æ			D02010406805 D04010008710	2	
R242 R243L/R	METAL FILM 3. METAL FILM 3.			C0603R306P52	2		C509	300	ELECTROLYTIC SG	22	वर्षे वर्षे			D04022008310	1	
R243C/\$	METAL FILM 3.	3 ohm 1/	5W J	C0603R306P52	2		C510		ELECTROLYTIC SG	220	ø₽.			D04022108310	1	
R244UR R244C/S	METAL FILM 3. METAL FILM 3.			C0603R306P52 C0603R306P52	2		C511 C512		ELECTROLYTIC SG MYLAR	47 0.0047	µर्ट व्ह			D04047008310 D02047206C06	1	
R244G/3	, METALFILM U.	,	34. 3	00000110001 02	•		C513		ELECTROLYTIC SG	22	pe.		-	D04022008310	1	
Bor.	4 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						C514 C515-C	517	ELECTROLYTIC SG CERAMIC TUBULAR	100	æ	10 V 50 V		D04010108210	1	
PC85	ASSEMBLY P.C.BOARD FRON' CAPACITORS	1					C515-C		ELECTROLYTIC SSE	100	pf ⊯F			D00110107753 D04001008712	2	
C301	ELECTROLYTIC SG 1			D04010008710			C522		MYLAR BOX	0.1	₽F.			D02010406805	1	
C302 C303/C304	ELECTROLYTIC SG 1 MYLAR 0.04	_		D04010008710 D02047306C06	1 2	A	C523 C524		ELECTROLYTIC SSE ELECTROLYTIC SG	1 220	pĒ pĒ			D04001008712 D04022108210	1	
C303/C304	ELECTROLYTIC 0.04	7 F 5	5.5 V	D09047370220	1		C526		CERAMIC TUBULAR	560	pF pF	50 V		D00556107753	1	
C306	ELECTROLYTIC SG 10	_		D04010108210	1		C527 C528		MYLAR MYLAR	0.0056	"₽			002056206C06 002047306C06	1	
C307 C308/C309	CERAMIC TUBULAR 0. ELECTROLYTIC SG 1		50 V 50 V M	D00510409753 D04010008710	2		C528		MYLAR BOX	0.047	μF Zu	63 V		D02047306C06 D02068406805	1	
C310/C311	CERAMIC TUBULAR 0.	؛ عَبِرَا	50 V	D00510409753	2		C530/C		MYLAR BOX	0.22	Ja€		3	D02022406805	2	
C312 C313	CERAMIC TUBULAR 82 ELECTROLYTIC SG 2		50 V 16 V M	D00582107753 D04022008310	1		C532/C		ELECTROLYTIC SG MYLAR BOX	4.7 0.22	µĒ aĒ			00404R708710 002022406805	2	
C734			50 V	D04001008710			C536		MYLAR BOX	0.1	µF	63 V	J	D02010406805	1	
	CONNECTORS						C537/C: C539/C:		MYLAR MYLAR BOX	0.047	μF .e.			002047306C06 002010406805	2	
CN301	CONNECTORS PLUG, 52575-2530			L13152575250	1		C541/C		MYLAR BOX	0.022	nE pE			002022306C06	2	
CN302	LEAD ASSTY, 8P 350			L02108353331	1		C543		MYLAR BOX	0.1	μF				1	

EXEMPTICATION 20	DEE NO	DESCRIPTION				PART NO. 0	YN VEDSION	REF.NO	DESCRIPTION				PART NO.	O'tv	VERSION
ESPANDE TUBLILLAY OF # 95 V DISSISSIONED 2 CORRESPONDED TO THE CORPT OF THE CORPT		DESCRIPTION	220		10 V M					056	Æ	100V J		_	12.(0,0
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CAMPANIC PUBLISHED 200 2						_	-								
MYLAN															
CERAMIC TUBLILAR Sept															
MYLANE BOX															D.RDS
ELECTROLYTIC SIG. 40															
MILANE DATE									CERAMIC TUBULAR	100	ь£	50 V	D00110107753	6	D.RDS
## WILLE BOX 1											-				
WILE 1.0006									CERAMIC TUBULAR	47	ьF	50 V	D00147005753	1	D.RDS
CASACOS ELECTROLYTIC SG							1			47		50 V	D00147006753	1	D,RDS
CAMPAINS SECTION YIT DESC 1				-			1		ELECTROLYTIC SG	47		16 V M	D04047008310	2	
ELECTRICYTIC 56										100		50 V	D00110107753	3	
CERAMIC TUBLICAR 17								C628	ELECTROLYTIC SG	100		16 V M	D04010108310	1	
ELECTROLYTIC SS							1			0.1		50 V	D00510409753	1	
ELECTROLYTIC SEC. 47							1	C630	ELECTROLYTIC SA	33		16 V M	D04033008310	1	
CERS. CRAMOT TUBLILAR 680			0.47				1	C631/C632	ELECTROLYTIC SG	470	Ja€	10 V M	DD4047108210	2	
ELECTRICATIVE SEC. 17							1	C633L/R	ELECTROLYTIC SSE	4.7	J.F	16 V M	D0404R708312	2	
CSTOCKES					50 V M	D040R4708710	1	C634L/R	ELECTROLYTIC SSE	4.7		16 V M	D0404R708312	2	
CETZCATOS EMANDET TUBBLAR 0.1					16 V M	D04047008310	2	C637/C638	ELECTROLYTIC SG	47	øF.	16 V M	D04047008310	2	
CEPAMET TUBULAR 100 27 50 V D0011019773 3 CPR02 TUBULAR 200 27 50 V D0011019773 1 CPR02 TUBULAR 200 27 50 V D0011019773 1 CPR02 TUBULAR 200 TU			0.1		50 V	D00510409753	2	C639	ELECTROLYTIC SSE	10	μF	16 V	D04010008312	1	
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CORRELATE CUBBLE CORRELATE CORRES CORRELATE CORRES CORRELATE CORRES CORRES					50 V	D00510207753	1		CONNECTORS						
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DIODE PLUG. \$237-7410 TO DIODE			-				CP602	PLUG, 35237-1210				L10135237120	1		
DIODE PLUG. \$237-7410 TO DIODE	CONNECTORS														
Description	CP501					L10135237100	1		DIODES						
Diode Diod						L10135237080	1	D601/D602	SWITCHING, 1N4148M				K00041480152	2	
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RESISTORS						J12145590001	1								
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RESPON FILM								Q602/Q603							
R8002 CARBON FILM		RESISTORS						Q604	DTC114YS, NPN				J60201140005	1	
R504 CARBON FILM 7.5 sbmm is 5	R501	CARBON FILM	47	kohm	1/5 W J	C00004736P52	1								
R506 CARBON FILM 47 kohm 15 w] C00004736952 1 Kohm 67 w] C00004736952 1 Kohm 68 w] Kohm 15 w] C00004736952 1 Kohm 68 w] C000			15	kohm	1/5 W J	C00001536P52	1								
RESIDENCE CARBON FILM 15 kolm 15 W C0000138PS2 1	R503	CARBON FILM	7.5				1								D,RDS
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METAL FILM	R512	METAL FILM	470												
CARBON FILM	R513-R515	METAL FILM													
METAL FILM	R516	METAL FILM													
CARBON FILM	R517	CARBON FILM												-	
R321	R518	METAL FILM													
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R625 CARBON FILM 22 kbm 1/5 W J C0000236P52 R626R619 R622LR CARBON FILM 1 kbm 1/5 W J C0000136P52 1 R622LR CARBON FILM 1 kbm 1/5 W J C0000136P52 1 R622LR CARBON FILM 10 kbm 1/5 W J C0000136P52 1 R622LR CARBON FILM 10 kbm 1/5 W J C0000136P52 2 R633 R624LR L644	R523	CARBON FILM					•								
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R547 METAL FILM 470 ohm 1/5 W J C06004716P52 1 R637 CARBON FILM 22 kohm 1/5 W J C00002236P52 1 R548 CARBON FILM 47 kohm 1/5 W J C00004736P52 1 49 RCA JACK (9P) G60790150001 1 G60790150001 1 R550 CARBON FILM 6.8 kohm 1/5 W J C06002726P52 1 50 RCA JACK (4P) G60790150001 1 R550 CARBON FILM 6.8 kohm 1/5 W J C00006826P52 1 R551 CARBON FILM 10 kohm 1/5 W J C00000136P52 1 R551 CARBON FILM 10 kohm 1/5 W J C00000136P52 1 R552/R553 METAL FILM 820 ohm 1/5 W J C06000169F52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R554-R556 METAL FILM 1 kohm 1/5 W J C06000169F52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R554-R556 METAL FILM 1 kohm 1/5 W J C06000176P52 2 C702 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C703 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C703 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C704 ELECTROLYTIC SG 10 pf 16 V M D0407008310 2 C707 ELECTROLYTIC SG 47 pf 16 V M D0407008310 2 C708 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C708 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00688107753 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 100 pf 50 V D00648708710 1 C709 CERAMIC TUBULAR 1														-	
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R549 METAL FILM 2.7 kohm 1/5 W J C06002726P52 1 50 RCA JACK (4P) G60240045003 1 R550 CARBON FILM 6.8 kohm 1/5 W J C000008826P52 1 R551 CARBON FILM 820 ohm 1/5 W J C000008826P52 1 R551-R551 METAL FILM 820 ohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R556 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R557/R558 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R557/R558 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R557/R558 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R557/R558 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R557/R558 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R559 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R559 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R559 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R552/R559 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R551-R559 METAL FILM 1 kohm 1/5 W J C06008216P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME R552/R559 METAL FILM 820 METAL FILM 1 kohm 1/5 W J C06008216P52 1 PCB9 ASSEMBLY P.C.BOARD VOLUME R552/R559 METAL FILM 820 METAL FILM 820 METAL FILM 1 kohm 1/5 W J C06008216P52 1 PCB9 ASSEMBLY P.C.BOARD VOLUME R554-R556 METAL FILM 820 M										22	Konm	1/2 AA]			
R550 CARBON FILM 6.8 kohm 1/5 W J C00005826P52 1 R551 CARBON FILM 10 kohm 1/5 W J C00001036P52 1 R552/R553 METAL FILM 820 ohm 1/5 W J C0600816P52 2 R554-R556 METAL FILM 1 kohm 1/5 W J C0600816P52 2 R554-R556 METAL FILM 1 kohm 1/5 W J C0600816P52 2 R557/R558 CARBON FILM 1 kohm 1/5 W J C0600816P52 2 C702 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C703 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C704 ELECTROLYTIC SG 10 of 50 V D00110107753 1 C705 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C706 ELECTROLYTIC SG 10 of 50 V D00110107753 1 C707 ELECTROLYTIC SG 0.47 of 50 V M D04010088710 1 C708 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C708 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C709 CERAMIC TUBULAR 100 of 50 V D00404708710 1 C709 CERAMIC TUBUL															
R551 CARBON FILM 10 kohm 1/5 W J C00001036P52 1 R552/R553 METAL FILM 820 kohm 1/5 W J C00001036P52 2 PCB9 ASSEMBLY P.C.BOARD VOLUME								50	RCA JACK (4P)				S00240045003	1	
R552/R553 METAL FILM 820 ohm 1/5 W J C06008216P52 2 C701 ELECTROLYTIC SG 10 F 50 V D04010008710 1 R554-R556 METAL FILM 1 kohm 1/5 W J C06001028P52 3 C701 ELECTROLYTIC SG 10 F 50 V D04010008710 1 R557/R558 CARBON FILM 47 kohm 1/5 W J C06004738P52 2 C702 CERAMIC TUBULAR 100 F 50 V D00110107753 1 C703 CERAMIC TUBULAR 100 F 50 V D00110107753 1 C704 ELECTROLYTIC SG 10 F 50 V D04047008310 2 C705/C705 ELECTROLYTIC SG 10 F 50 V D04047008310 2 C706 CERAMIC TUBULAR 100 F 50 V D0404708710 1 C707 ELECTROLYTIC SG 10 F 50 V D0404708710 1 C708 CERAMIC TUBULAR 100 F 50 V D0404708710 1 C709 CERAMIC TUBULAR 100 F 50 V D05058107753 1 C602L/R CERAMIC TUBULAR 100 F 50 V D05058107753 1 C603L/R CERAMIC TUBULAR 100 F 50 V D0404708710 1 C603L/R CERAMIC TUBULAR 100 F 50 V D0404708710 1 C604RF CERAMIC TUBULAR 0.0022 F 16 V D0522277353 1 D,RDS C714 ELECTROLYTIC SG 10 F 16 V M D04047008310 1 C604RF CERAMIC TUBULAR 0.0022 F 16 V D0522277353 1 D,RDS C714 ELECTROLYTIC SG 10 F 16 V M D040108210 1 C7010 F 10 F 10 V M D040108210 1 C7010 F 10 V M D040108210 1															
R554-R556 METAL FILM 1 kohm 1/5 W J C06001026P52 3 C701 ELECTROLYTIC SG 10 # 50 V M D04010083710 1 R554-R556 METAL FILM 1 kohm 1/5 W J C06001026P52 3 C702 CERAMIC TUBULAR 100 # 50 V D00110107753 1 MISCELLANEOUS X501 RESONATOR, CSA2M E8302000005 1 C705/C706 ELECTROLYTIC SG 10 # 50 V M D0401008370 1 X501 RESONATOR, CSA2M E8302000005 1 C705/C706 ELECTROLYTIC SG 10 # 50 V M D0401008370 1 C707 ELECTROLYTIC SG 0.47 # 50 V M D0401008370 1 C708 CERAMIC TUBULAR 100 # 50 V M D0404708310 2 C708 CERAMIC TUBULAR 100 # 50 V M D0404708310 1 C709 CERAMIC TUBULAR 100 # 50 V M D0404708310 1 C709 CERAMIC TUBULAR 100 # 50 V M D0404708310 1 C603L/R CERAMIC TUBULAR 100 # 50 V M D0404708310 1 C603L/R CERAMIC TUBULAR 100 # 50 V M D0404708310 1 C604L/F CERAMIC TUBULAR 100 # 50 V M D0404708310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1 C604L/F CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 # 16 V M D0401008310 1								0.000							
R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C702 CERAMIC TUBULAR 100 of 50 V D00110107753 1 R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C703 CERAMIC TUBULAR 100 of 50 V D00110107753 1 R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C703 CERAMIC TUBULAR 100 of 50 V D00110107753 1 R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C703 CERAMIC TUBULAR 100 of 50 V D00110107753 1 R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C704 ELECTROLYTIC SG 10 of 50 V M D04047008310 2 R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C705 ELECTROLYTIC SG 10 of 50 V M D04047008310 2 R557/R558 CARBON FILM 47 kohm 1/5 W J C00004736P52 2 C709 CERAMIC TUBULAR 100 of 50 V M D04047008310 1 C709 CERAMIC TUBULAR 100 of 50 V D00110107753 1 C602L/R CERAMIC TUBULAR 100 of 50 V D00110107753 2 C710 ELECTROLYTIC SG 0.47 of 50 V M D0404708710 1 C603L/R CERAMIC TUBULAR 0.0022 of 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 of 16 V M D04010108210 2 C604L/R CERAMIC TUBULAR 0.0022 of 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 of 16 V M D04010108210 1 C604RF CERAMIC TUBULAR 0.0022 of 16 V D00522277353 1 D,RDS C714 ELECTROLYTIC SG 100 of 16 V M D04010108210 1 L10135237100 1												en	PD4D4D4D4D4		
MISCELLANEOUS E83020000005 E83020000005 E83020000005 EECTROLYTIC SG 10 F 50 V D00110107753 1															
MISCELLANEOUS E8302000005 1 C704 ELECTROLYTIC SG 10 F 50 V M D04010008710 1 2 2 2 2 2 2 2 2 2	R557/R558	CARBON FILM	47	kohm	1/5 W J	C00004736P52	2								
RESONATOR, CSA2M E8302000005 1 C705/C706 ELECTROLYTIC SG 47 # 16 V M D04047008310 2															
C707 ELECTROLYTIC SG		MISCELLANEOUS													
PCB8	X501					E83020000005	1								
PCB8															
C603UR ELECTROLYTIC SG 4.7 # 50 V M D040R4708710 1 2 C710 ELECTROLYTIC SG 4.7 # 50 V M D040R4708710 1 2 C603UR ELECTROLYTIC SG 4.7 # 16 V M D04047008310 1 2 C712/C713 ELECTROLYTIC SG 4.7 # 16 V M D04047008310 1 2 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108210 2 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D040108310 1 C604UR CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 # 16 V M D04010108310 1 C604UR CERAM															
CAPACITORS CAPACI	PCB8	ASSEMBLY P.C.BOARD	INPUT											1	
C602L/R CERAMIC TUBULAR 100 pr 50 V D00110107753 2 C711 ELECTROLYTIC SG 47 pr 16V M D04047008310 1 C603L/R ELECTROLYTIC SG 47 pr 16V M D04047008310 1 C603L/R CERAMIC TUBULAR 0.0022 pr 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 pr 16V M D04010108210 2 C604L/R CERAMIC TUBULAR 0.0022 pr 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 pr 16V M D04010108310 1 C604L/R CERAMIC TUBULAR 0.0022 pr 16 V D00522277353 1 D.RDS C714 ELECTROLYTIC SG 100 pr 16V M D04010108310 1 L0135237100 1 L0135237100 1											μF			1	
C603UR ELECTROLYTIC SG 4.7	C602L/R		100	ωF	50 V										
C604LF CERAMIC TUBULAR 0.0022			4.7			D0404R708710	2				μĒ				
C604RF CERAMIC TUBULAR 0.0022 # 16 V D00522277353 1 D.RDS CP701 PLUG, 35237-1010 L10135237100 1										100	μĒ	16 V M			
					16 V	D00522277353	1 D,RDS								
OUGUN MILEN	C605L/R	MYLAR	0.0018			D02018206C06	2	CP702	PLUG, 35237-1210				£10135237120	1	

REF.NO	DESCRIPTION					PART NO.	Qʻty	VERSION
IC701	KIA4559P/KIA75559P					J12145590001	1	
IC702	MOTOR DRIVER, TA729	15				J12772910000	1	
Q701 R701	DTC114YS, NPN	820		4 IE 1A1		J60201140005 C06008216P52		
R701	METAL FILM METAL FILM	470				C06006216P52	1	
R703	CARBON FILM					C00001046P52		
R704	METAL FILM					C06002226P52		
R705	CARBON FILM METAL FILM					C00009126P52		
R706	METAL FILM	1	kohm	1/5 W	J	C06001026P52	1	
R707	CARBON FILM	100	kohm	1/5 W	J	C06001026P52 C00001046P52 C06002216P52 C06004716P52	1 2	
R710	METAL FILM METAL FILM	470	ohm	1/5 W	ا.	C06002216P52	1	
R711	CARBON FILM	47	kohm	1/5 W	Ĵ	C00004736P52	t	
R712	METAL FILM					C06002226P52	1	
R713	CARBON FILM	9.1				C00009126P52		
R714	METAL FILM	1	kohm	1/5 W	j	C06001026P52	1	
R715 R716	CARBON FILM	10	kohm	1/5 W	J	C06001026P52 C00001036P52 C06003306P52	1	
R717	METAL FILM CARBON FILM	90	Ontin	110 44		C00001536P52		
R718	METAL FILM					C06004726P52		
23	VOLUME MOTOR					C49514530001	1	
PCB10	ASSEMBLY P.C.BOARD	TONE						
	CAPACITORS							
C715LF	CERAMIC TUBULAR	100	pf pf	50 V		D00110107753		D.RDS
C715RF	CERAMIC TUBULAR		pF	50 V		D00110107753		D,RDS
C716LF C716RF	CERAMIC TUBULAR CERAMIC TUBULAR	100 100	_	50 V		D00110107753 D00110107753		D.RDS D.RDS
C715RF	ELECTROLYTIC SSE	33	př LE	16 V	М	D04033008312	1	5,000
C718E	CERAMIC TUBULAR	0.1	2	50 V		D04033008312 D00510409753 D00510409753 D00510409753 D00110107753 D00147006753 D0404R708312 D0404R708312	1	
C719E	CERAMIC TUBULAR	0.1	Œ.	50 V		D00510409753	1	
C721L/R	ELECTROLYTIC SSE	4.7	_aF	16 V	М	D0404R708312	2	
C722L/R	CERAMIC TUBULAR CERAMIC TUBULAR ELECTROLYTIC SSE	100	pF	50 V		D00110107753	2	
C723L/R	CERAMIC TUBULAR	47	ρF	50 V		D00147006753	2	
		4.7	μĒ	16 V	M	D0404R708312	2	
C725UR	ELECTROLYTIC SSE	4.7	μĒ	16 V	М	D0404R708312	2	
C726L/R C727L/R	MYLAR BOX MYLAR BOX					D02018306805 D02082306805	2	
C728L/R	MYLAR BOX	0.082 0.0033 0.018	, pr , s	63 V	J.	D02033206805	2	
C729L/R	MYLAR BOX	0.018		63 V	J	D02018306805	2	
	ELECTROLYTIC SSE	47	Æ	16 V	М	D04047008312	2	
CN703	CONNECTOR OP AMP, LEAD ASS"Y, 15	5P 220				L02215223332	1	
IC703	INTEGRATED CIRCUIT NJM2068LD					J12120680001	1	
	, , , , , , , , , , , , , , , , , , , ,						•	
	RESISTORS							
R719	METAL FILM	75				C06007506P52	1	
R721L/R	METAL FILM	470				C06004716P52	2	
R/22/R/23	METAL FILM METAL FILM	220				C06002216P52 C06001026P52	2	
R725L/R	CARBON FILM					C00001026P52	2	
R726L/R	CARRON EILM					C00004736P52	2	
R727UR	CARBON FILM	1				C00001056P52	2	
R728L/R	METAL FILM	470	ohm	1/5 W	J	C06004716P52	2	
R729L/R	CARBON FILM					C00001046P52	2	
R730∪R	CARBON FILM					C00002236P52		
R731L/R	CARBON FILM METAL FILM METAL FILM					C06003926P52	2	
R732⊔R R733⊔R						C06002226P52 C06005616P52	2	
R733UR R734UR	METAL FILM METAL FILM					C06003616P52		
		*			_		-	
	MISCELLANEOUS							
VR702	CARBON FILM					C00001046P52	1	
VR703	CARBON FILM	100	kohm	1/5 W	j	C00001046P52		
20 21	SWITCH BALANCE SWITCH TREBLE/BASS					C45511140200 C45512140230	1 2	
22	JACK RCA (3P)					G60604030000		
PCB11	ASSEMBLY P.C.BOARD	SPEAKE	R SWII	гсн				
C732L/R	MYLAR	0.047			J	D02047306C06	2	
C733LF	CERAMIC TUBULAR	560	nF.	50 V		D00556107753	1	
C733RF	CERAMIC TUBULAR	560	ρF	50 V		D00556107753		
CP202	PLUG, 5267-06A					L10252670060	1	
CN704	PLUG, JE202A2T8	496	mb	9141	,	L10420200081	1	
R735L/R	METAL FILM	470 10	ohm			C06004716652 C06001006552		
R736L/R R737LF	METAL FILM CARBON FILM					C00001006552		
R737RF	CARBON FILM					C00001536P52		
27	JACK PHONE				-	G40204016133		
28	SWITCH PUSH					G00004117000		
PCB12	ASSEMBLY P.C.BOARD	D-LINK						
CN110	CONNECTOR 2P. 120 mm					L02102123331	1	
J747	JUMPER					L04508400602	1	
45	RCA JACK (2P)					G60120116003	1	

IC FUNCTIONAL BLOCK DIAGRAM

IC 504: TC 9299P



XOUT

NC

DATA

801

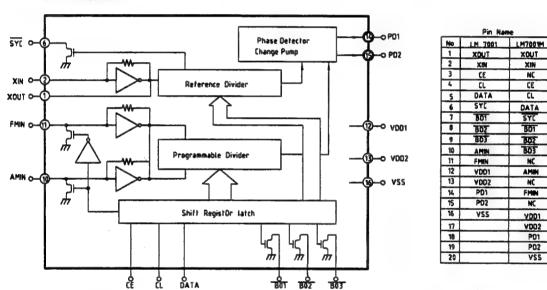
AMIN

VDD1

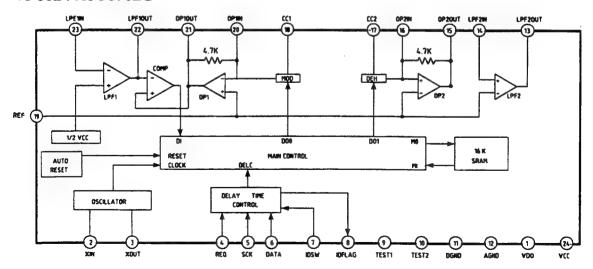
VDD2

PD1 PD2

IC 1: LM 7001M

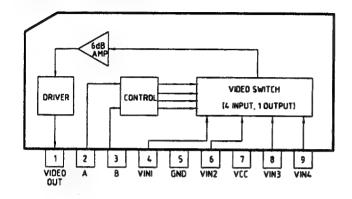


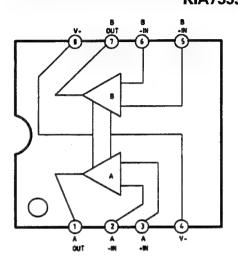
IC 502: NJU9702G



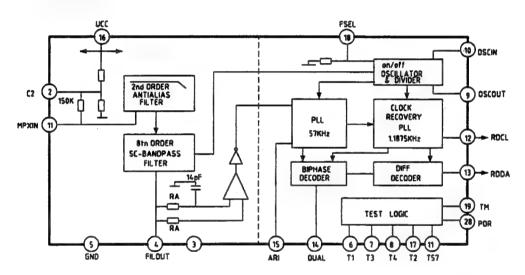
IC 604: LA 7952

IC 503/IC601/IC603/IC701 : KIA4559P, KIA7559P

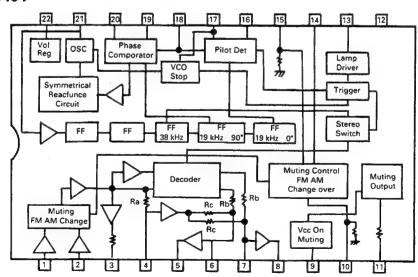




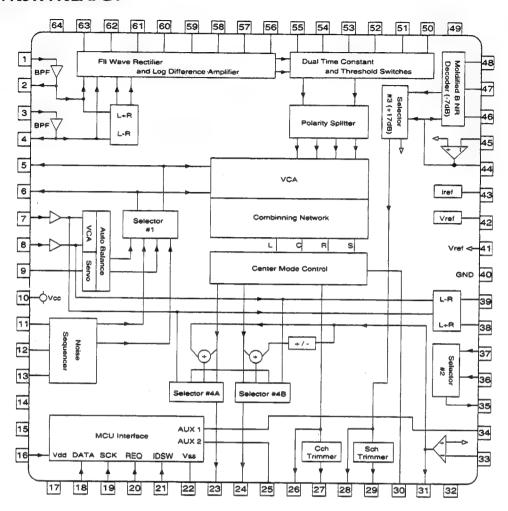
IC 4D: TDA7330BD



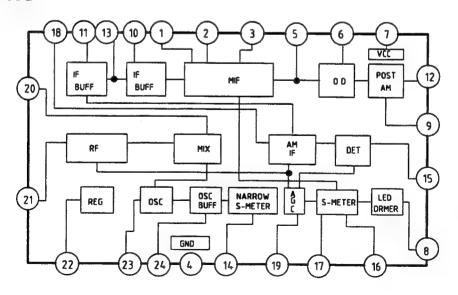
IC 3: LA3401



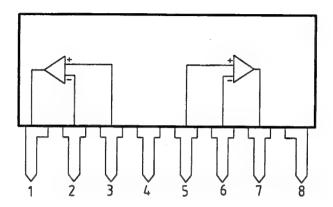
IC 501: NJW1102AFG1



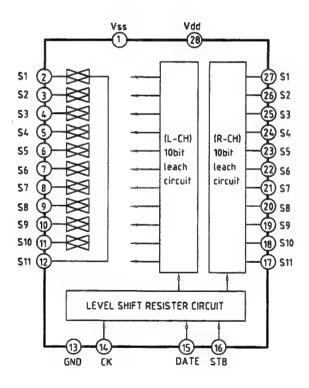
IC 2: LA1266G



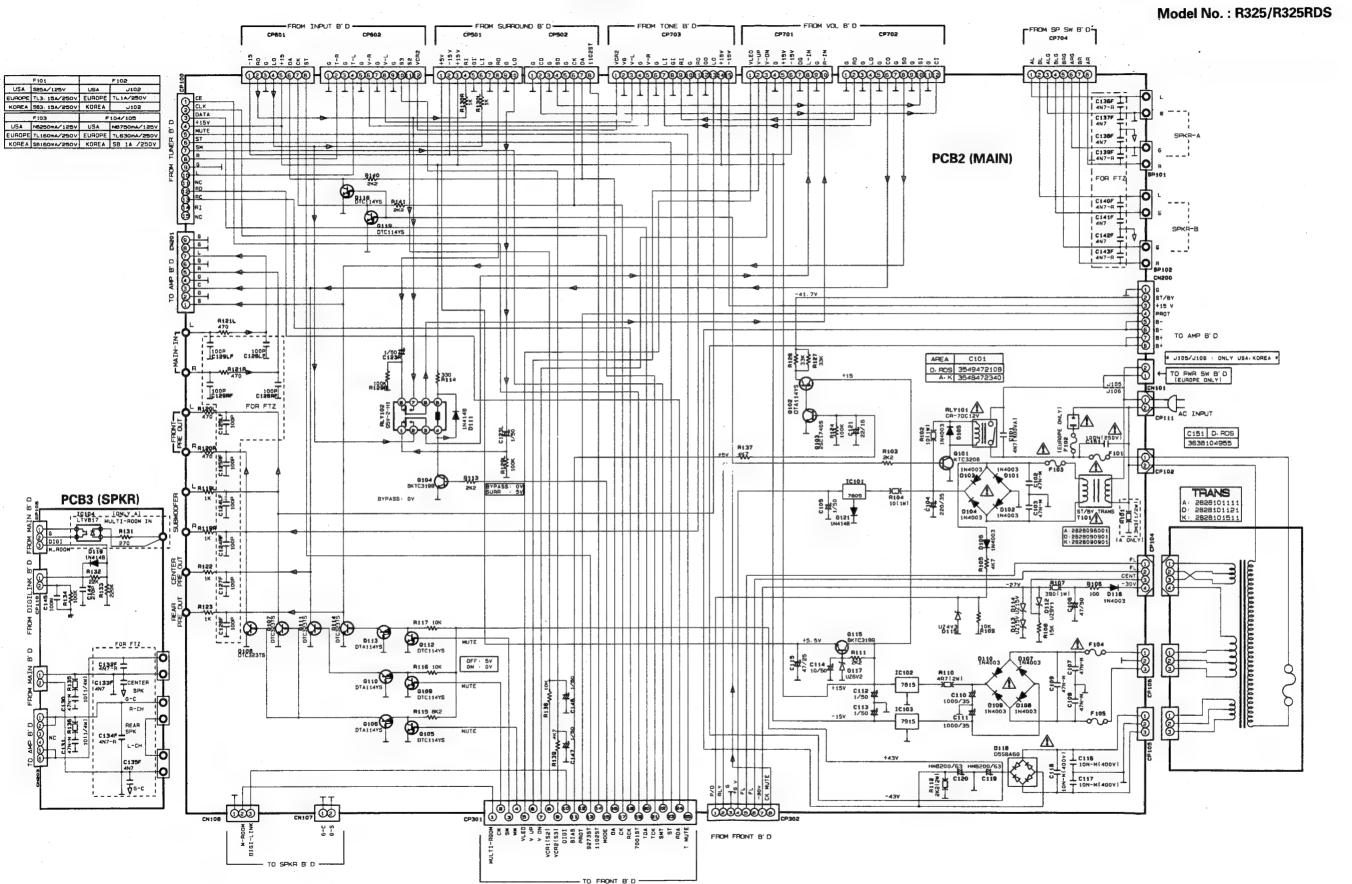
IC 703: NJM2068



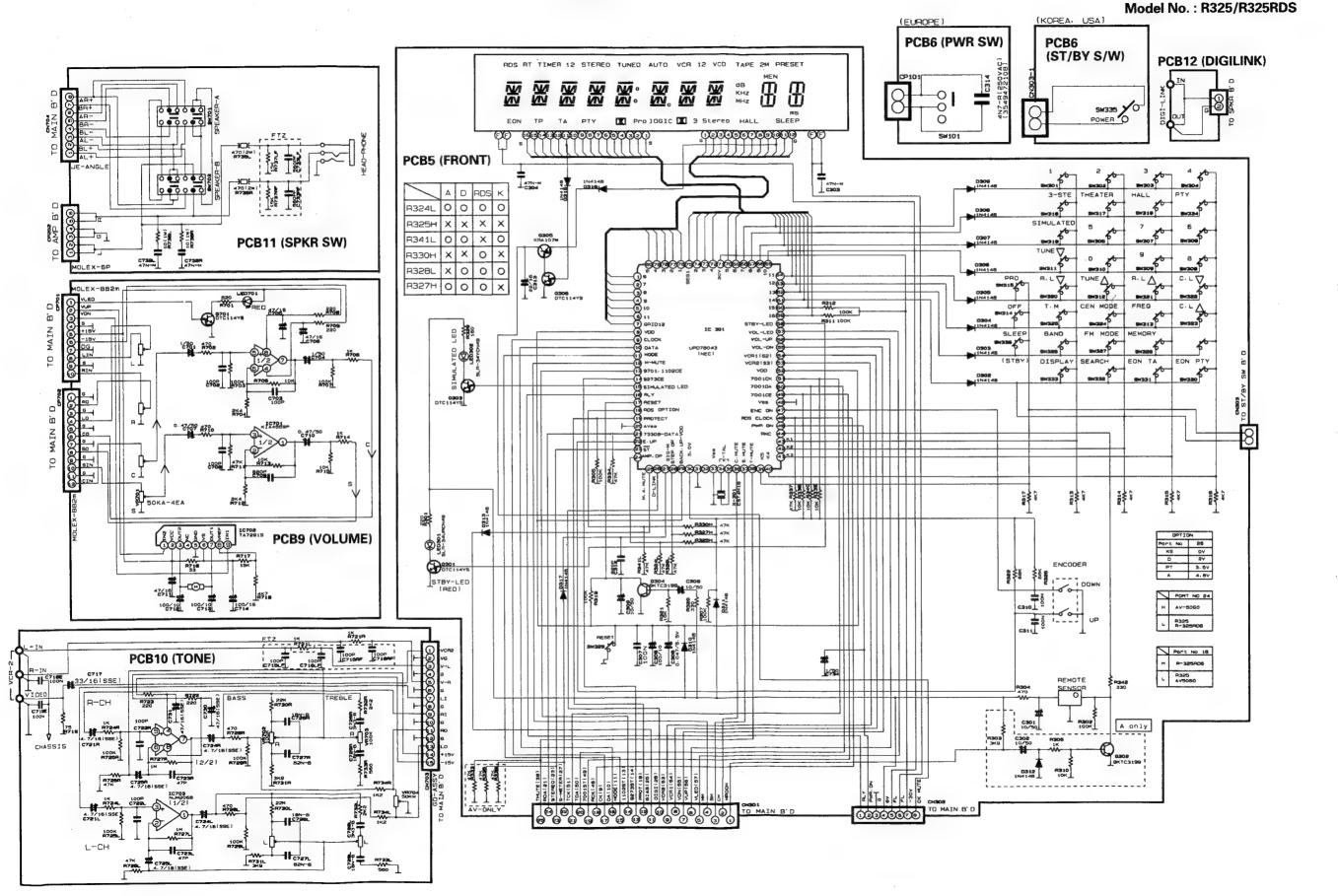
IC 602: TC9273N-007



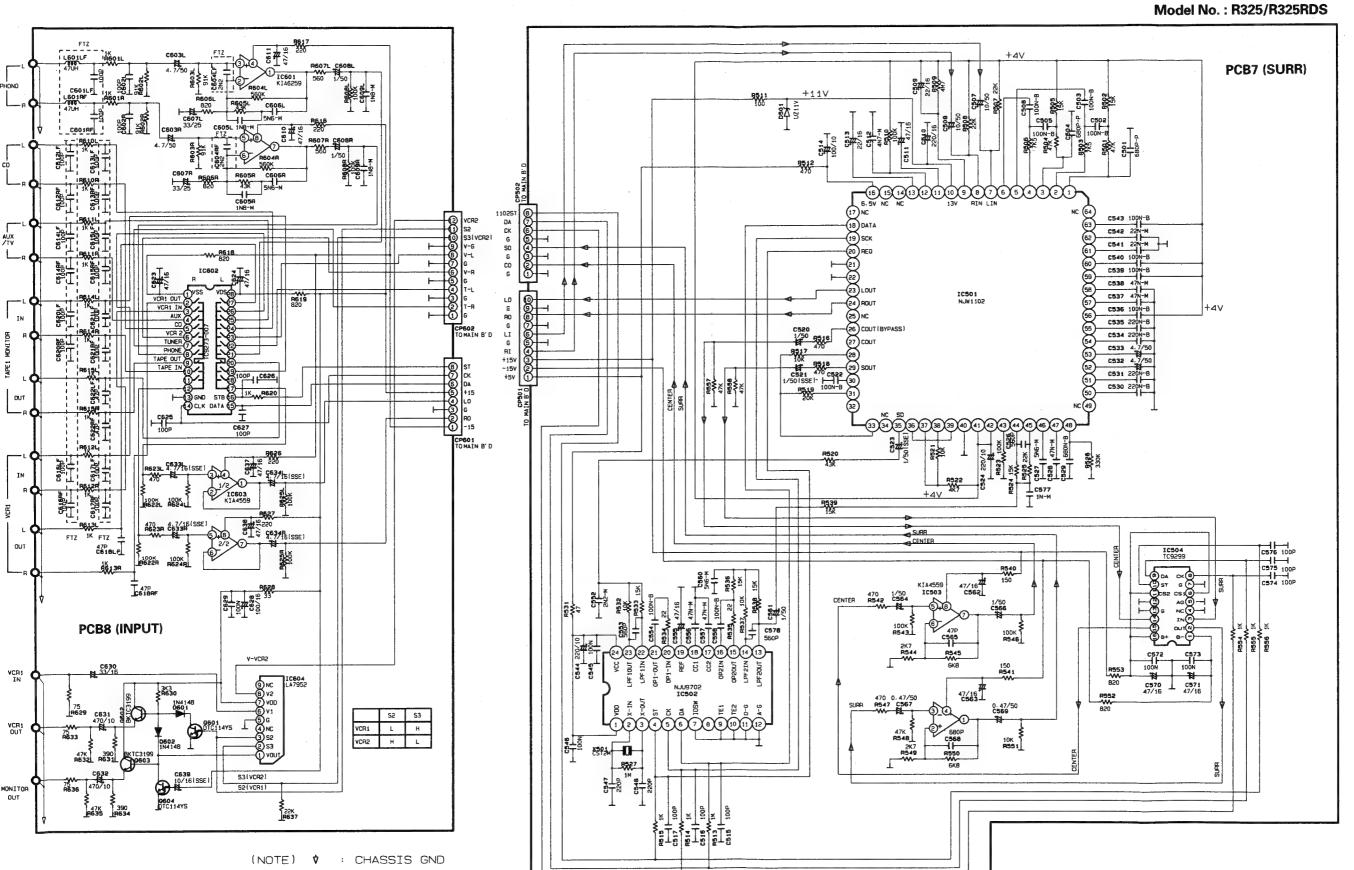
SCHEMATIC DIAGRAM (I)



SCHEMATIC DIAGRAM (II)

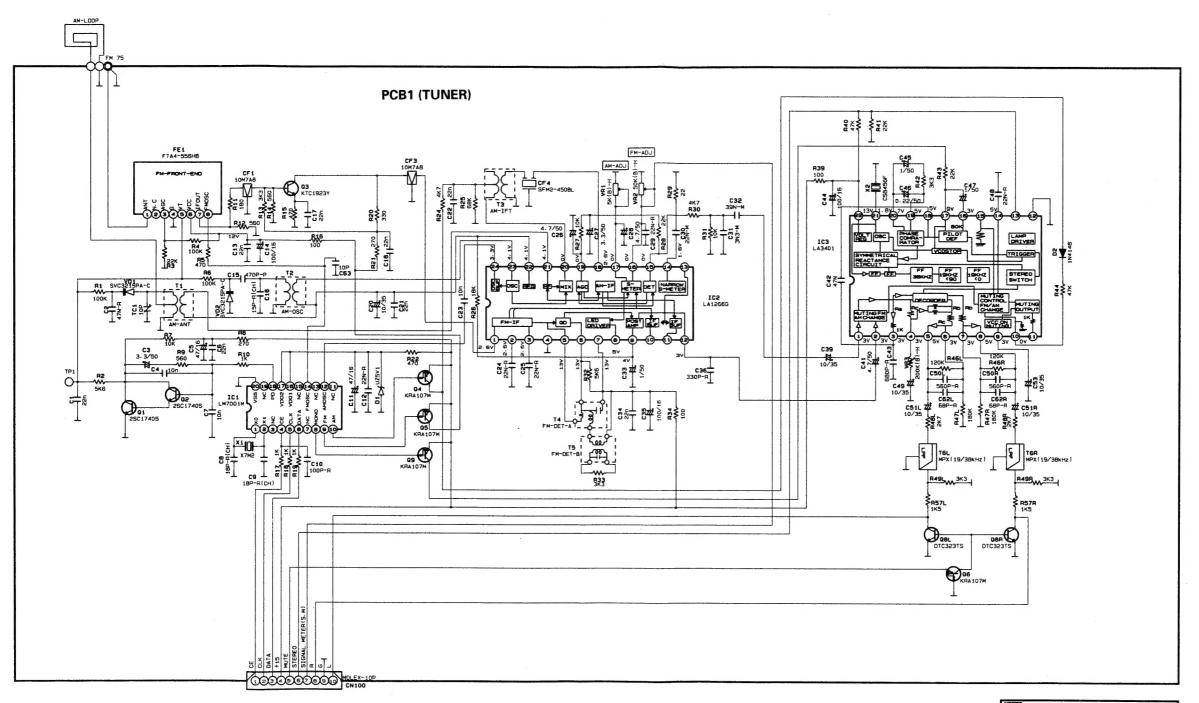


SCHEMATIC DIAGRAM (III)



SCHEMATIC DIAGRAM (IV)

Model No.: R325/R325RDS



MOTES

1. Resistor values are indicated in ohms unless otherwise specified (K=1.000 M=1.000.000)

2. Especitor values are indicated in microfarades unless otherwise specified.

[p=micro-microfarades]

CAUTION

CAUTION

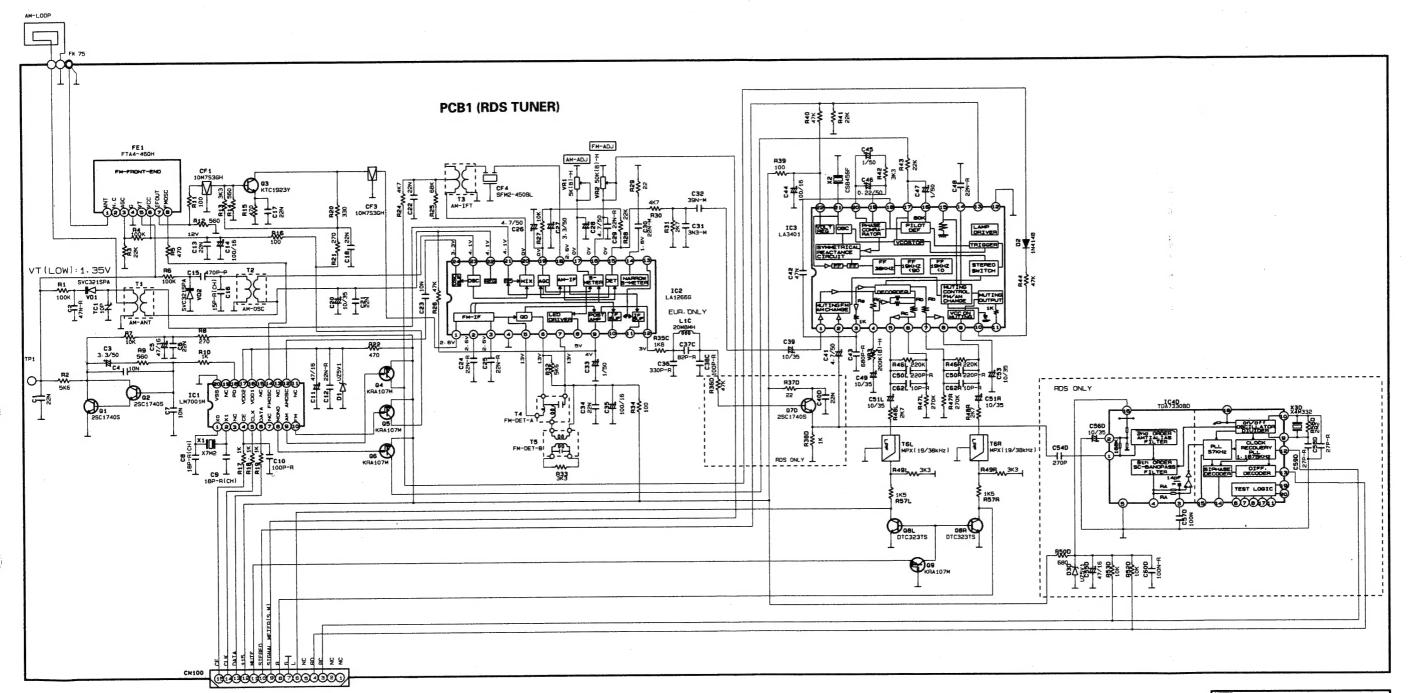
Bafety precaution to be followed during servicing

ilSince those parts marked with an energiate parts for safety, use only the one described in the parts list

2|Before returning the set to the customer make appropriste leakage current or realistence measurements to determine the exposed parts are properly insulated from the supply circuit.

SCHEMATIC DIAGRAM (V)

Model No.: R325/R325RDS



NOTES

1. Resistor values are indicated in the common of the control of the contr

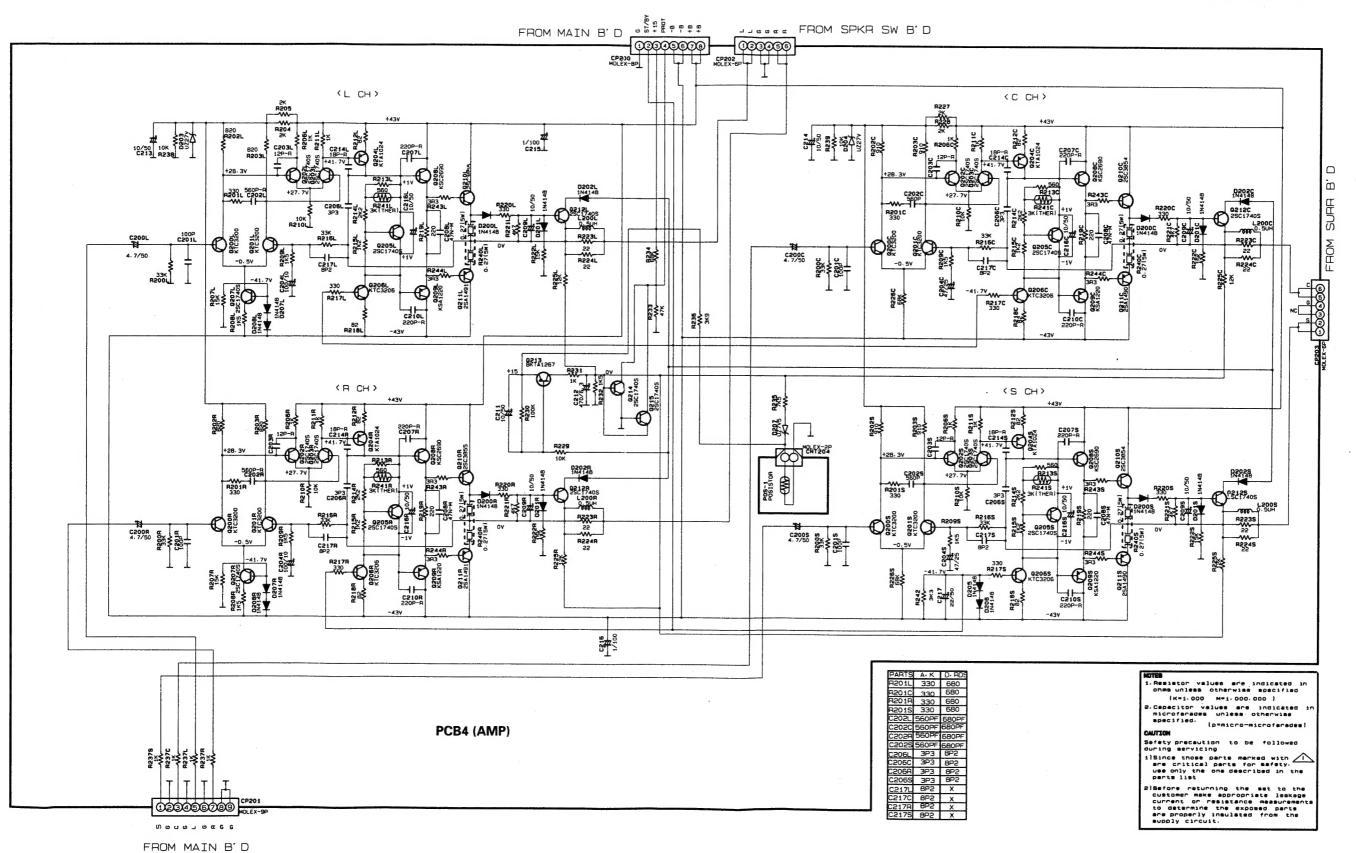
CANTION

Safety precaution to be followed ouring servicing ilSince those parts marked with are critical parts for safety. use only the one described in the parts list

parts list
238sfore returning the set to the
customer make appropriate leakage
customer make appropriate leakage
customer make appropriate leakage
customer and appropriate appropriate appropriate from the
supply circuit.

SCHEMATIC DIAGRAM (VI)

Model No.: R325/R325RDS



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PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND ICS

	AditAil of Diobeo		
TC9210P	TC9273N-007	μPD78042 μPD78043AGF	LM7001/M TDA7330BD
8	30 1	65 63 41 24 25	10
LA3401 LA1266	NJM2068	KIA4559P/KIA7555P	LA7 95 2
13			
NJU9702G	NJW1102AFG1	KA 7815 KA 7805	KA 7915
13	49 48 1 1 33 33 32 16 17	GROUND OUTPUT GROUND	GROUND OUTPUT
KSC2690A KSC1220A	KTC2229/KTC3206 KTA949/KTA1024	DTA114YS KRA107N DTC114YS DTC323TS DTC114YS 2SC3199Y	2SC3855/2SC3854 2SA1491/2SA1490
E C B	B C E	25C1740 25C1740 KTA1267	B C E
KTC2240/KTC3200 KTC1923Y/KTC3194	D5SBA60	ZENER IN4003 IN4148	SVC321SPA-C
EC B	+1~~~	Cathode	